Name	OJ000102_37.0426.C9.o1.gs	Method	GENSCAN
Start	1349	End	2528
GI	none	Score	.47
Exons	1349..1362, 2131..2294, 2314..2528		

Seq. No.	54367	Seq. ID	OJ000102_37.0426.C9
Gene No.	114031	Strand	-
Start	1094	End	2858
Name	OJ000102_37.0426.C9.o1.np	Method	AAT/NAP
Start	1094	End	2858
GI	6063554	Score	341
Exons	1094..1265, 1905..1935, 2233..2475, 2593..2858		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	54368	Seq. ID	OJ000102_37.0426.C10
Gene No.	114032	Strand	+
Start	176	End	1717
Name	OJ000102_37.0426.C10.o1.gs	Method	GENSCAN
Start	176	End	1628
GI	none	Score	.47
Exons	176..304, 643..1365, 1476..1628		

Seq. No.	54368	Seq. ID	OJ000102_37.0426.C10
Gene No.	114032	Strand	+
Start	176	End	1717
Name	OJ000102_37.0426.C10.o1.np	Method	AAT/NAP
Start	715	End	1717
GI	6815097	Score	618
Exons	715..1599, 1687..1717		
GI Descrip.	(AP001081) Similar to putative copia polyprotein (AC006248) [Oryza sativa]		

Seq. No.	54368	Seq. ID	OJ000102_37.0426.C10
Gene No.	114032	Strand	+
Start	176	End	1717
Name	OJ000102_37.0426.C10.o1.tc	Method	TBLASTX:Cress
Start	808	End	1068
GI	none	Score	218
Exons	808..1068, 823..1032		

Seq. No.	54369	Seq. ID	OJ000102_37.0426.C11
Gene No.	114033	Strand	+
Start	502	End	5723
Name	OJ000102_37.0426.C11.o2.np	Method	AAT/NAP
Start	502	End	5723
GI	6815097	Score	3092
Exons	502..541, 2425..3057, 3172..4863, 4945..5723		
GI Descrip.	(AP001081) Similar to putative copia polyprotein (AC006248) [Oryza sativa]		

Seq. No.	54369	Seq. ID	OJ000102_37.0426.C11
Gene No.	114034	Strand	-
Start	717	End	2286
Name	OJ000102_37.0426.C11.o1.np	Method	AAT/NAP
Start	717	End	2286

GI	6630687	Score	313
Exons	717..946, 2264..2286		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa]		
Seq. No.	54369	Seq. ID	OJ000102_37.0426.C11
Gene No.	114035	Strand	
Start	5202	End	5874
Name	OJ000102_37.0426.C11.o1.tm	Method	TBLASTX:Maize
Start	5202	End	5555
GI	none	Score	44
Exons	5202..5240, 5232..5555, 5243..5554		
Seq. No.	54369	Seq. ID	OJ000102_37.0426.C11
Gene No.	114035	Strand	
Start	5202	End	5874
Name	OJ000102_37.0426.C11.o1.ts	Method	TBLASTX:Soybean
Start	5214	End	5798
GI	none	Score	186
Exons	5214..5567, 5682..5798		
Seq. No.	54369	Seq. ID	OJ000102_37.0426.C11
Gene No.	114035	Strand	
Start	5202	End	5874
Name	OJ000102_37.0426.C11.o2.tm	Method	TBLASTX:Maize
Start	5681	End	5874
GI	none	Score	239
Exons	5681..5872, 5685..5873, 5686..5874, 5758..5874		
Seq. No.	54370	Seq. ID	OJ000102_37.0426.C12
Gene No.	114036	Strand	+
Start	4249	End	9708
Name	OJ000102_37.0426.C12.o1.np	Method	AAT/NAP
Start	3616	End	9270
GI	7248394	Score	1427
Exons	3616..4510, 6410..7461, 9206..9270		
GI Descrip.	(AP001389) ESTs C97394(C60113),AU075824(R0165),D38985(R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15O11 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)		
Seq. No.	54370	Seq. ID	OJ000102_37.0426.C12
Gene No.	114036	Strand	+
Start	4249	End	9708
Name	OJ000102_37.0426.C12.o2.gs	Method	GENSCAN
Start	4249	End	4847
GI	none	Score	.92
Exons	4249..4339, 4657..4847		
Seq. No.	54370	Seq. ID	OJ000102_37.0426.C12
Gene No.	114036	Strand	+
Start	4249	End	9708
Name	OJ000102_37.0426.C12.o3.gs	Method	GENSCAN
Start	5410	End	6692
GI	none	Score	.47
Exons	5410..5716, 6322..6692		

Seq. No.	54370	Seq. ID	OJ000102_37.0426.C12
Gene No.	114036	Strand	+
Start	4249	End	9708
Name	OJ000102_37.0426.C12.o2.np	Method	AAT/NAP
Start	7136	End	8450
GI	629693	Score	175
Exons	7136..7168, 8097..8450		
GI Descrip.	probable integrase - common tobacco (fragment) gi|530742|emb|CAA56791| (X80830) integrase [Nicotiana tabacum]		

Seq. No.	54370	Seq. ID	OJ000102_37.0426.C12
Gene No.	114036	Strand	+
Start	4249	End	9708
Name	OJ000102_37.0426.C12.o4.gs	Method	GENSCAN
Start	7898	End	9708
GI	none	Score	.8
Exons	7898..7950, 9618..9708		

Seq. No.	54370	Seq. ID	OJ000102_37.0426.C12
Gene No.	114037	Strand	+
Start	11078	End	11177
Name	OJ000102_37.0426.C12.o5.gs	Method	GENSCAN
Start	11078	End	11177
GI	none	Score	.57
Exons	11078..11177		

Seq. No.	54370	Seq. ID	OJ000102_37.0426.C12
Gene No.	114038	Strand	-
Start	11042	End	11213
Name	OJ000102_37.0426.C12.o1.tw	Method	TBLASTX:Wheat
Start	6281	End	6687
GI	none	Score	60
Exons	6281..6325, 6282..6338, 6333..6662, 6341..6685, 6341..6619, 6348..6683, 6352..6687		

Seq. No.	54370	Seq. ID	OJ000102_37.0426.C12
Gene No.	114038	Strand	-
Start	11042	End	11213
Name	OJ000102_37.0426.C12.o2.tm	Method	TBLASTX:Maize
Start	6336	End	6554
GI	none	Score	280
Exons	6336..6554, 6336..6512, 6341..6553		

Seq. No.	54370	Seq. ID	OJ000102_37.0426.C12
Gene No.	114038	Strand	-
Start	11042	End	11213
Name	OJ000102_37.0426.C12.o1.tm	Method	TBLASTX:Maize
Start	6555	End	7015
GI	none	Score	424
Exons	6555..7013, 6557..6619, 6707..7015		

Seq. No.	54370	Seq. ID	OJ000102_37.0426.C12
Gene No.	114038	Strand	-
Start	11042	End	11213
Name	OJ000102_37.0426.C12.o1.ts	Method	TBLASTX:Soybean
Start	6702	End	7174
GI	none	Score	206

Exons	6702..6983, 7025..7174		
Seq. No.	54370	Seq. ID	OJ000102_37.0426.C12
Gene No.	114038	Strand	-
Start	11042	End	11213
Name	OJ000102_37.0426.C12.o2.ts	Method	TBLASTX:Soybean
Start	8108	End	8395
GI	none	Score	185
Exons	8108..8395, 8302..8394		
Seq. No.	54370	Seq. ID	OJ000102_37.0426.C12
Gene No.	114038	Strand	-
Start	11042	End	11213
Name	OJ000102_37.0426.C12.o3.np	Method	AAT/NAP
Start	11042	End	11213
GI	5257279	Score	135
Exons	11042..11213		
GI Descrip.	(AP000364) Similar to Transposon MAGGY gag and pol gene homologues. (L35053) [Oryza sativa]		
Seq. No.	54371	Seq. ID	OJ000102_37.0426.C13
Gene No.	114040	Strand	-
Start	1545	End	1823
Name	OJ000102_37.0426.C13.o2.gs	Method	GENSCAN
Start	1545	End	1823
GI	none	Score	.62
Exons	1545..1823		
Seq. No.	54372	Seq. ID	OJ000102_37.0426.C14
Gene No.	114041	Strand	-
Start	76	End	650
Name	OJ000102_37.0426.C14.o1.gs	Method	GENSCAN
Start	76	End	650
GI	none	Score	.71
Exons	76..201, 230..342, 509..650		
Seq. No.	54373	Seq. ID	OJ000322_25.0417.C2
Gene No.	114042	Strand	-
Start	76	End	700
Name	OJ000322_25.0417.C2.o1.gs	Method	GENSCAN
Start	76	End	700
GI	none	Score	.55
Exons	76..261, 638..700		
Seq. No.	54374	Seq. ID	OJ000322_25.0417.C3
Gene No.	114043	Strand	+
Start	359	End	2483
Name	OJ000322_25.0417.C3.o1.gs	Method	GENSCAN
Start	359	End	2475
GI	none	Score	.74
Exons	359..419, 1024..1067, 1630..1852, 1977..2140, 2231..2475		
Seq. No.	54374	Seq. ID	OJ000322_25.0417.C3
Gene No.	114043	Strand	+
Start	359	End	2483
Name	OJ000322_25.0417.C3.o1.np	Method	AAT/NAP
Start	1579	End	2483

GI	7485621	Score	425
Exons	1579..1852, 1977..2143, 2189..2483		
GI Descrip.	hypothetical protein F17I5.50 - Arabidopsis thaliana gi|3297810|emb|CAA19868.1| (AL031032) putative protein [Arabidopsis thaliana] gi|7270335|emb|CAB80103.1| (AL161584) putative protein [Arabidopsis thaliana]		

Seq. No.	54374	Seq. ID	OJ000322_25.0417.C3
Gene No.	114043	Strand	+
Start	359	End	2483
Name	OJ000322_25.0417.C3.o2.tm	Method	TBLASTX:Maize
Start	1612	End	1805
GI	none	Score	165
Exons	1612..1725, 1614..1637, 1629..1724, 1729..1803, 1734..1805		

Seq. No.	54374	Seq. ID	OJ000322_25.0417.C3
Gene No.	114043	Strand	+
Start	359	End	2483
Name	OJ000322_25.0417.C3.o1.ts	Method	TBLASTX:Soybean
Start	1615	End	1851
GI	none	Score	188
Exons	1615..1851, 1629..1850		

Seq. No.	54374	Seq. ID	OJ000322_25.0417.C3
Gene No.	114043	Strand	+
Start	359	End	2483
Name	OJ000322_25.0417.C3.o1.tm	Method	TBLASTX:Maize
Start	2047	End	2467
GI	none	Score	123
Exons	2047..2139, 2048..2140, 2228..2467, 2230..2295, 2338..2463		

Seq. No.	54375	Seq. ID	OJ000322_25.0417.C4
Gene No.	114044	Strand	+
Start	1	End	605
Name	OJ000322_25.0417.C4.o1.np	Method	AAT/NAP
Start	1	End	504
GI	3885492	Score	430
Exons	1..504		
GI Descrip.	(AF063865) tapetum specific protein [Zea mays]		

Seq. No.	54375	Seq. ID	OJ000322_25.0417.C4
Gene No.	114044	Strand	+
Start	1	End	605
Name	OJ000322_25.0417.C4.o1.gs	Method	GENSCAN
Start	15	End	605
GI	none	Score	.62
Exons	15..605		

Seq. No.	54375	Seq. ID	OJ000322_25.0417.C4
Gene No.	114045	Strand	+
Start	1291	End	1668
Name	OJ000322_25.0417.C4.o1.gp	Method	AAT/GAP
Start	1291	End	1668
GI	none	Score	640
Exons	1291..1668		

Seq. No.	54375	Seq. ID	OJ000322_25.0417.C4

Gene No.	114046	Strand	+
Start	4628	End	7345
Name	OJ000322_25.0417.C4.o3.gs	Method	GENSCAN
Start	4628	End	7345
GI	none	Score	.86
Exons	4628..4797, 4895..4987, 5289..5464, 6520..6647, 6735..6788, 6931..7006, 7257..7345		

Seq. No.	54375	Seq. ID	OJ000322_25.0417.C4
Gene No.	114046	Strand	+
Start	4628	End	7345
Name	OJ000322_25.0417.C4.o3.gp	Method	AAT/GAP
Start	5419	End	6653
GI	32029_1.R1084	Score	715
Exons	5419..5464, 5537..5583, 6193..6262, 6421..6653		
GI Descrip.	'4309726/gb|AAD15496| 1.0e-10 (AC006439) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	54375	Seq. ID	OJ000322_25.0417.C4
Gene No.	114047	Strand	+
Start	13838	End	14228
Name	OJ000322_25.0417.C4.o5.gs	Method	GENSCAN
Start	13838	End	14228
GI	none	Score	.4
Exons	13838..13915, 14148..14228		

Seq. No.	54375	Seq. ID	OJ000322_25.0417.C4
Gene No.	114048	Strand	-
Start	598	End	2922
Name	OJ000322_25.0417.C4.o2.np	Method	AAT/NAP
Start	598	End	2870
GI	7429865	Score	145
Exons	598..619, 1844..2049, 2151..2325, 2733..2870		
GI Descrip.	conserved hypothetical protein MTH1692 - Methanobacterium thermoautotrophicum (strain Delta H) gi|2622823|gb|AAB86164.1| (AE000927) conserved protein [Methanobacterium thermoautotrophicum]		

Seq. No.	54375	Seq. ID	OJ000322_25.0417.C4
Gene No.	114048	Strand	-
Start	598	End	2922
Name	OJ000322_25.0417.C4.o2.gs	Method	GENSCAN
Start	1580	End	2922
GI	none	Score	.88
Exons	1580..1637, 1763..2054, 2150..2325, 2733..2888, 2894..2922		

Seq. No.	54375	Seq. ID	OJ000322_25.0417.C4
Gene No.	114048	Strand	-
Start	598	End	2922
Name	OJ000322_25.0417.C4.o2.gp	Method	AAT/GAP
Start	1758	End	2207
GI	LIB3434-027-P1-K1-C8	Score	601
Exons	1758..2054, 2150..2207		
GI Descrip.	'5832914/emb|CAB55118.1| 1.0e-09 (AL117203) predicted using Genefinder; preliminary prediction [Caenorhabditis elegans]'		

Seq. No.	54375	Seq. ID	OJ000322_25.0417.C4

Gene No.	114049	Strand	-
Start	7304	End	7637
Name	OJ000322_25.0417.C4.o4.gp	Method	AAT/GAP
Start	7304	End	7637
GI	none	Score	581
Exons	7304..7637		

Seq. No.	54375	Seq. ID	OJ000322_25.0417.C4
Gene No.	114050	Strand	-
Start	7969	End	14501
Name	OJ000322_25.0417.C4.o4.gs	Method	GENSCAN
Start	7969	End	13063
GI	none	Score	.48
Exons	7969..9096, 9221..9316, 9558..9724, 9806..9980, 11274..12494, 12593..12759, 12856..13063		

Seq. No.	54375	Seq. ID	OJ000322_25.0417.C4
Gene No.	114050	Strand	-
Start	7969	End	14501
Name	OJ000322_25.0417.C4.o3.np	Method	AAT/NAP
Start	8076	End	9066
GI	3885492	Score	1117
Exons	8076..9066		
GI Descrip.	(AF063865) tapetum specific protein [Zea mays]		

Seq. No.	54375	Seq. ID	OJ000322_25.0417.C4
Gene No.	114050	Strand	-
Start	7969	End	14501
Name	OJ000322_25.0417.C4.o5.gp	Method	AAT/GAP
Start	9065	End	10534
GI	30521_1.R1084	Score	1079
Exons	9065..9096, 9221..9316, 9558..9724, 9806..9980, 10108..10160, 10465..10534		
GI Descrip.	'3297810/emb|CAA19868.1| 3.0e-20 (AL031032) putative protein [Arabidopsis thaliana]'		

Seq. No.	54375	Seq. ID	OJ000322_25.0417.C4
Gene No.	114050	Strand	-
Start	7969	End	14501
Name	OJ000322_25.0417.C4.o4.np	Method	AAT/NAP
Start	11253	End	14501
GI	7485619	Score	1310
Exons	11253..12497, 12593..12759, 12856..13113, 14476..14501		
GI Descrip.	hypothetical protein F17I5.30 - Arabidopsis thaliana gi|3297808|emb|CAA19866.1| (AL031032) putative protein [Arabidopsis thaliana] gi|7270333|emb|CAB80101.1| (AL161584) putative protein [Arabidopsis thaliana]		

Seq. No.	54375	Seq. ID	OJ000322_25.0417.C4
Gene No.	114050	Strand	-
Start	7969	End	14501
Name	OJ000322_25.0417.C4.o6.gp	Method	AAT/GAP
Start	11699	End	12060
GI	LIB3434-039-P1-K1-E7	Score	637
Exons	11699..12060		
GI Descrip.	'3885492 1.0e-27 (AF063865) tapetum specific protein [Zea mays]'		

Seq. No.	54375	Seq. ID	OJ000322_25.0417.C4
Gene No.	114051	Strand	-
Start	14981	End	15701
Name	OJ000322_25.0417.C4.o6.gs	Method	GENSCAN
Start	14981	End	15701
GI	none	Score	.47
Exons	14981..14994, 15404..15526, 15641..15701		

Seq. No.	54375	Seq. ID	OJ000322_25.0417.C4
Gene No.	114052	Strand	-
Start	17626	End	18371
Name	OJ000322_25.0417.C4.o7.gs	Method	GENSCAN
Start	17626	End	18371
GI	none	Score	.77
Exons	17626..17793, 18072..18218, 18291..18371		

Seq. No.	54375	Seq. ID	OJ000322_25.0417.C4
Gene No.	114053	Strand	-
Start	21346	End	22170
Name	OJ000322_25.0417.C4.o1.tm	Method	TBLASTX:Maize
Start	6	End	12146
GI	none	Score	147
Exons	6..167, 17..172, 171..569, 171..344, 275..571, 8116..8826, 8141..8821, 11295..11705, 11302..11373, 11430..11705, 11431..11706, 11712..11738, 11712..11744, 11713..11739, 11754..12116, 11755..12129, 11976..12146, 11980..12135		

Seq. No.	54375	Seq. ID	OJ000322_25.0417.C4
Gene No.	114053	Strand	-
Start	21346	End	22170
Name	OJ000322_25.0417.C4.o1.tw	Method	TBLASTX:Wheat
Start	69	End	11757
GI	none	Score	65
Exons	69..167, 138..164, 165..344, 170..475, 171..485, 8125..8505, 8140..8463, 11388..11705, 11431..11757, 11712..11744		

Seq. No.	54375	Seq. ID	OJ000322_25.0417.C4
Gene No.	114053	Strand	-
Start	21346	End	22170
Name	OJ000322_25.0417.C4.o2.ts	Method	TBLASTX:Soybean
Start	222	End	11651
GI	none	Score	292
Exons	222..569, 275..529, 8054..8128, 8108..8353, 8131..8355, 11287..11376, 11298..11651, 11437..11649		

Seq. No.	54375	Seq. ID	OJ000322_25.0417.C4
Gene No.	114053	Strand	-
Start	21346	End	22170
Name	OJ000322_25.0417.C4.o3.tm	Method	TBLASTX:Maize
Start	1452	End	1950
GI	none	Score	43
Exons	1452..1502, 1461..1502, 1542..1673, 1545..1640, 1559..1672, 1757..1921, 1758..1946, 1763..1891, 1765..1950, 1783..1920		

Seq. No.	54375	Seq. ID	OJ000322_25.0417.C4
Gene No.	114053	Strand	-
Start	21346	End	22170

Name	OJ000322_25.0417.C4.o3.ts	Method	TBLASTX:Soybean
Start	2154	End	2806
GI	none	Score	42
Exons	2154..2180, 2154..2177, 2175..2318, 2175..2324, 2224..2325, 2735..2806		

Seq. No.	54375	Seq. ID	OJ000322_25.0417.C4
Gene No.	114053	Strand	-
Start	21346	End	22170
Name	OJ000322_25.0417.C4.o4.tm	Method	TBLASTX:Maize
Start	5358	End	6626
GI	none	Score	86
Exons	5358..5465, 5366..5467, 5366..5464, 5368..5466, 5531..5584, 5535..5588, 5536..5631, 6191..6262, 6192..6260, 6203..6262, 6420..6551, 6423..6542, 6424..6552, 6552..6626, 6554..6604		

Seq. No.	54375	Seq. ID	OJ000322_25.0417.C4
Gene No.	114053	Strand	-
Start	21346	End	22170
Name	OJ000322_25.0417.C4.o2.tw	Method	TBLASTX:Wheat
Start	6785	End	7370
GI	none	Score	54
Exons	6785..6826, 6786..6827, 6928..7008, 6929..7009, 7137..7343, 7137..7370, 7276..7350		

Seq. No.	54375	Seq. ID	OJ000322_25.0417.C4
Gene No.	114053	Strand	-
Start	21346	End	22170
Name	OJ000322_25.0417.C4.o1.ts	Method	TBLASTX:Soybean
Start	8512	End	12222
GI	none	Score	72
Exons	8512..8739, 8543..8740, 8716..8919, 11820..12038, 11821..12030, 12048..12221, 12060..12209, 12082..12222		

Seq. No.	54375	Seq. ID	OJ000322_25.0417.C4
Gene No.	114053	Strand	-
Start	21346	End	22170
Name	OJ000322_25.0417.C4.o1.tc	Method	TBLASTX:Cress
Start	8611	End	12255
GI	none	Score	96
Exons	8611..8949, 8618..8821, 8882..8947, 11919..12248, 11920..12255		

Seq. No.	54375	Seq. ID	OJ000322_25.0417.C4
Gene No.	114053	Strand	-
Start	21346	End	22170
Name	OJ000322_25.0417.C4.o2.tm	Method	TBLASTX:Maize
Start	8959	End	12712
GI	none	Score	94
Exons	8959..9063, 8959..9126, 9218..9328, 9558..9674, 9559..9672, 12261..12500, 12262..12387, 12270..12455, 12430..12495, 12572..12712		

Seq. No.	54375	Seq. ID	OJ000322_25.0417.C4
Gene No.	114053	Strand	-
Start	21346	End	22170
Name	OJ000322_25.0417.C4.o5.tm	Method	TBLASTX:Maize
Start	9933	End	13111

GI	none	Score	74
Exons	9933..9983, 10108..10143, 12903..13013, 12903..12962, 12905..12967, 12951..13079, 12982..13080, 12983..13111, 12984..13079		

Seq. No.	54375	Seq. ID	OJ000322_25.0417.C4
Gene No.	114053	Strand	-
Start	21346	End	22170
Name	OJ000322_25.0417.C4.o6.tm	Method	TBLASTX:Maize
Start	21292	End	21447
GI	none	Score	63
Exons	21292..21339, 21294..21338, 21337..21447, 21341..21445		

Seq. No.	54375	Seq. ID	OJ000322_25.0417.C4
Gene No.	114053	Strand	-
Start	21346	End	22170
Name	OJ000322_25.0417.C4.o5.np	Method	AAT/NAP
Start	21346	End	22170
GI	6006852	Score	139
Exons	21346..21444, 22124..22170		
GI Descrip.	(AC009540) putative adenylylsulfate kinase [Arabidopsis thaliana]		

Seq. No.	54376	Seq. ID	OJ000322_25.0417.C5
Gene No.	114054	Strand	-
Start	1	End	597
Name	OJ000322_25.0417.C5.o1.np	Method	AAT/NAP
Start	1	End	476
GI	3935183	Score	310
Exons	1..198, 285..476		
GI Descrip.	(AC004557) F17L21.26 [Arabidopsis thaliana]		

Seq. No.	54376	Seq. ID	OJ000322_25.0417.C5
Gene No.	114054	Strand	-
Start	1	End	597
Name	OJ000322_25.0417.C5.o1.tm	Method	TBLASTX:Maize
Start	1	End	363
GI	none	Score	70
Exons	1..57, 2..58, 31..234, 36..188, 47..199, 52..204, 249..359, 277..363, 284..355, 285..359		

Seq. No.	54376	Seq. ID	OJ000322_25.0417.C5
Gene No.	114054	Strand	-
Start	1	End	597
Name	OJ000322_25.0417.C5.o1.gs	Method	GENSCAN
Start	28	End	488
GI	none	Score	.59
Exons	28..198, 336..488		

Seq. No.	54376	Seq. ID	OJ000322_25.0417.C5
Gene No.	114054	Strand	-
Start	1	End	597
Name	OJ000322_25.0417.C5.o1.ts	Method	TBLASTX:Soybean
Start	79	End	461
GI	none	Score	106
Exons	79..234, 80..199, 118..204, 283..459, 285..461		

Seq. No.	54376	Seq. ID	OJ000322_25.0417.C5
Gene No.	114054	Strand	-
Start	1	End	597
Name	OJ000322_25.0417.C5.o1.gp	Method	AAT/GAP
Start	291	End	597
GI	2310625	Score	537
Exons	291..597		
GI Descrip.	3935183 1.0e-08 (AC004557) F17L21.26 [Arabidopsis thaliana]		

Seq. No.	54377	Seq. ID	OJ000322_25.0417.C6
Gene No.	114055	Strand	+
Start	162	End	806
Name	OJ000322_25.0417.C6.o1.gs	Method	GENSCAN
Start	162	End	806
GI	none	Score	.53
Exons	162..380, 702..806		

Seq. No.	54377	Seq. ID	OJ000322_25.0417.C6
Gene No.	114056	Strand	-
Start	1399	End	3068
Name	OJ000322_25.0417.C6.o2.gs	Method	GENSCAN
Start	1399	End	3041
GI	none	Score	.82
Exons	1399..1468, 2305..2588, 2885..3041		

Seq. No.	54377	Seq. ID	OJ000322_25.0417.C6
Gene No.	114056	Strand	-
Start	1399	End	3068
Name	OJ000322_25.0417.C6.o1.np	Method	AAT/NAP
Start	1402	End	3068
GI	6630873	Score	449
Exons	1402..1468, 2305..2579, 2885..3068		
GI Descrip.	(AF182953) Surfeit 1 [Arabidopsis thaliana]		

Seq. No.	54377	Seq. ID	OJ000322_25.0417.C6
Gene No.	114056	Strand	-
Start	1399	End	3068
Name	OJ000322_25.0417.C6.o1.ts	Method	TBLASTX:Soybean
Start	1414	End	3059
GI	none	Score	258
Exons	1414..1488, 2282..2536, 2302..2568, 2304..2567, 2913..2948, 2915..2947, 2993..3058, 3012..3059		

Seq. No.	54378	Seq. ID	OJ000322_25.0417.C7
Gene No.	114057	Strand	+
Start	3377	End	5483
Name	OJ000322_25.0417.C7.o2.gs	Method	GENSCAN
Start	3377	End	5483
GI	none	Score	.6
Exons	3377..3395, 3404..3818, 4067..4183, 5202..5351, 5384..5483		

Seq. No.	54378	Seq. ID	OJ000322_25.0417.C7
Gene No.	114058	Strand	-
Start	1427	End	2787
Name	OJ000322_25.0417.C7.o1.gs	Method	GENSCAN
Start	1427	End	2787
GI	none	Score	.95

Exons	1427..1544, 1629..1790, 2493..2647, 2725..2787		
Seq. No.	54378	Seq. ID	OJ000322_25.0417.C7
Gene No.	114058	Strand	-
Start	1427	End	2787
Name	OJ000322_25.0417.C7.o1.np	Method	AAT/NAP
Start	1430	End	2787
GI	6723432	Score	609
Exons	1430..1790, 2493..2645, 2725..2787		
GI Descrip.	(AL132965) ADP-RIBOSYLATION FACTOR-like protein [Arabidopsis thaliana]		
Seq. No.	54378	Seq. ID	OJ000322_25.0417.C7
Gene No.	114059	Strand	-
Start	2723	End	3960
Name	OJ000322_25.0417.C7.o2.tm	Method	TBLASTX:Maize
Start	1253	End	1700
GI	none	Score	65
Exons	1253..1309, 1254..1307, 1254..1310, 1310..1336, 1310..1393, 1342..1395, 1346..1396, 1346..1540, 1424..1543, 1428..1547, 1428..1544, 1628..1699, 1628..1699, 1629..1700		
Seq. No.	54378	Seq. ID	OJ000322_25.0417.C7
Gene No.	114059	Strand	-
Start	2723	End	3960
Name	OJ000322_25.0417.C7.o2.tc	Method	TBLASTX:Cress
Start	1424	End	1790
GI	none	Score	138
Exons	1424..1543, 1425..1547, 1628..1789, 1629..1790, 1629..1790		
Seq. No.	54378	Seq. ID	OJ000322_25.0417.C7
Gene No.	114059	Strand	-
Start	2723	End	3960
Name	OJ000322_25.0417.C7.o1.ts	Method	TBLASTX:Soybean
Start	1494	End	2820
GI	none	Score	41
Exons	1494..1547, 1496..1540, 1628..1789, 1629..1787, 2482..2637, 2486..2635, 2487..2648, 2492..2647, 2717..2818, 2725..2820, 2726..2809		
Seq. No.	54378	Seq. ID	OJ000322_25.0417.C7
Gene No.	114059	Strand	-
Start	2723	End	3960
Name	OJ000322_25.0417.C7.o1.tw	Method	TBLASTX:Wheat
Start	1658	End	3752
GI	none	Score	123
Exons	1658..1789, 1659..1790, 2487..2648, 2492..2656, 2725..2829, 2726..2809, 3684..3752, 3706..3744		
Seq. No.	54378	Seq. ID	OJ000322_25.0417.C7
Gene No.	114059	Strand	-
Start	2723	End	3960
Name	OJ000322_25.0417.C7.o1.tm	Method	TBLASTX:Maize
Start	1701	End	3876
GI	none	Score	125
Exons	1701..1790, 1703..1789, 2459..2644, 2487..2648, 2490..2642, 2492..2656, 2725..2820, 2726..2809, 3704..3745, 3712..3744,		

3853..3876

Seq. No.	54378	Seq. ID	OJ000322_25.0417.C7
Gene No.	114059	Strand	-
Start	2723	End	3960
Name	OJ000322_25.0417.C7.o1.tc	Method	TBLASTX:Cress
Start	2494	End	3039
GI	none	Score	262
Exons	2494..2652, 2495..2653, 2496..2654, 2496..2675, 2714..2815, 2717..2821, 2942..2971, 3013..3039		

Seq. No.	54378	Seq. ID	OJ000322_25.0417.C7
Gene No.	114059	Strand	-
Start	2723	End	3960
Name	OJ000322_25.0417.C7.o1.gp	Method	AAT/GAP
Start	2723	End	3960
GI	none	Score	638
Exons	2723..2806, 3704..3960		

Seq. No.	54379	Seq. ID	OJ000322_25.0417.C8
Gene No.	114060	Strand	+
Start	744	End	3288
Name	OJ000322_25.0417.C8.o1.gs	Method	GENSCAN
Start	744	End	3288
GI	none	Score	.94
Exons	744..967, 1673..1997, 2376..2469, 2571..2848, 3166..3288		

Seq. No.	54379	Seq. ID	OJ000322_25.0417.C8
Gene No.	114061	Strand	
Start	4199	End	4391
Name	OJ000322_25.0417.C8.o1.tm	Method	TBLASTX:Maize
Start	4199	End	4391
GI	none	Score	90
Exons	4199..4276, 4200..4277, 4290..4391, 4290..4388		

Seq. No.	54380	Seq. ID	OJ000322_25.0417.C10
Gene No.	114062	Strand	+
Start	1	End	1422
Name	OJ000322_25.0417.C10.o2.np	Method	AAT/NAP
Start	1	End	1422
GI	6069646	Score	597
Exons	1..155, 438..1422		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	54380	Seq. ID	OJ000322_25.0417.C10
Gene No.	114062	Strand	+
Start	1	End	1422
Name	OJ000322_25.0417.C10.o1.gs	Method	GENSCAN
Start	57	End	1080
GI	none	Score	.67
Exons	57..350, 637..1080		

Seq. No.	54380	Seq. ID	OJ000322_25.0417.C10

Gene No.	114063	Strand	-
Start	399	End	2908
Name	OJ000322_25.0417.C10.o1.tm	Method	TBLASTX:Maize
Start	5	End	380
GI	none	Score	371
Exons	5..229, 6..380, 132..371		

Seq. No.	54380	Seq. ID	OJ000322_25.0417.C10
Gene No.	114063	Strand	-
Start	399	End	2908
Name	OJ000322_25.0417.C10.o1.tw	Method	TBLASTX:Wheat
Start	18	End	458
GI	none	Score	177
Exons	18..317, 23..208, 330..458		

Seq. No.	54380	Seq. ID	OJ000322_25.0417.C10
Gene No.	114063	Strand	-
Start	399	End	2908
Name	OJ000322_25.0417.C10.o3.np	Method	AAT/NAP
Start	399	End	2908
GI	6563285	Score	131
Exons	399..460, 1890..2019, 2866..2908		
GI Descrip.	(AF178976) adenosine-5'-phosphosulfate kinase [Zea mays]		

Seq. No.	54380	Seq. ID	OJ000322_25.0417.C10
Gene No.	114063	Strand	-
Start	399	End	2908
Name	OJ000322_25.0417.C10.o2.tm	Method	TBLASTX:Maize
Start	853	End	1321
GI	none	Score	72
Exons	853..939, 965..1183, 986..1171, 997..1182, 1184..1321		

Seq. No.	54380	Seq. ID	OJ000322_25.0417.C10
Gene No.	114063	Strand	-
Start	399	End	2908
Name	OJ000322_25.0417.C10.o3.tm	Method	TBLASTX:Maize
Start	1852	End	2016
GI	none	Score	80
Exons	1852..2007, 1891..2016, 1892..2011		

Seq. No.	54380	Seq. ID	OJ000322_25.0417.C10
Gene No.	114063	Strand	-
Start	399	End	2908
Name	OJ000322_25.0417.C10.o1.gp	Method	AAT/GAP
Start	1889	End	2029
GI	17915_1.R1084	Score	200
Exons	1889..2029		
GI Descrip.	'2832300 7.0e-53 (AF044285) adenosine-5''-phosphosulfate-kinase [Catharanthus roseus]'		

Seq. No.	54381	Seq. ID	OJ000322_25.0417.C11
Gene No.	114064	Strand	+
Start	1334	End	1648
Name	OJ000322_25.0417.C11.o1.gp	Method	AAT/GAP
Start	1334	End	1648
GI	2973_1.R1084	Score	574
Exons	1334..1648		

GI Descrip. '1172556/sp|P42056|POR6_SOLTU 1.0e-55 36 KD OUTER MITOCHONDRIAL MEMBRANE PROTEIN PORIN (VOLTAGE-DEPENDENT ANION-SELECTIVE CHANNEL PROTEIN) (VDAC) (POM 36) >gi_629729_pir__S46925 porin II, 36K - potato >gi_1076681_pir__B55364 porin (clone pPOM 36.2) - potato mitochondrion >gi_515360_emb_CAA56600_ (X80387) 36kDA porin II [Solanum tuberosum]'

Seq. No.	54381	Seq. ID	OJ000322_25.0417.C11
Gene No.	114065	Strand	-
Start	27	End	1366
Name	OJ000322_25.0417.C11.o1.gs	Method	GENSCAN
Start	27	End	1366
GI	none	Score	.72
Exons	27..199, 1325..1366		

Seq. No.	54382	Seq. ID	OJ000322_25.0417.C12
Gene No.	114066	Strand	+
Start	1	End	73
Name	OJ000322_25.0417.C12.o1.np	Method	AAT/NAP
Start	1	End	73
GI	5852093	Score	83
Exons	1..73		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	54382	Seq. ID	OJ000322_25.0417.C12
Gene No.	114067	Strand	+
Start	1033	End	6451
Name	OJ000322_25.0417.C12.o1.gs	Method	GENSCAN
Start	1033	End	6451
GI	none	Score	.43
Exons	1033..1104, 1997..2134, 2328..2457, 3679..3796, 3845..3899, 4356..4504, 5690..5863, 6331..6451		

Seq. No.	54382	Seq. ID	OJ000322_25.0417.C12
Gene No.	114068	Strand	-
Start	5628	End	7082
Name	OJ000322_25.0417.C12.o2.np	Method	AAT/NAP
Start	5628	End	7082
GI	6069646	Score	133
Exons	5628..5996, 6303..6452, 7048..7082		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	54383	Seq. ID	OJ000322_25.0417.C18
Gene No.	114069	Strand	-
Start	1	End	805
Name	OJ000322_25.0417.C18.o1.np	Method	AAT/NAP
Start	1	End	805
GI	3935183	Score	559
Exons	1..718, 755..805		
GI Descrip.	(AC004557) F17L21.26 [Arabidopsis thaliana]		

Seq. No.	54383	Seq. ID	OJ000322_25.0417.C18
Gene No.	114069	Strand	-

Start	1	End	805
Name	OJ000322_25.0417.C18.o1.tm	Method	TBLASTX:Maize
Start	23	End	805
GI	none	Score	202
Exons	23..715, 30..170, 31..708, 38..712, 237..716, 722..805, 723..797		

Seq. No.	54383	Seq. ID	OJ000322_25.0417.C18
Gene No.	114069	Strand	-
Start	1	End	805
Name	OJ000322_25.0417.C18.o1.gs	Method	GENSCAN
Start	71	End	700
GI	none	Score	.87
Exons	71..700		

Seq. No.	54383	Seq. ID	OJ000322_25.0417.C18
Gene No.	114069	Strand	-
Start	1	End	805
Name	OJ000322_25.0417.C18.o1.tc	Method	TBLASTX:Cress
Start	479	End	719
GI	none	Score	41
Exons	479..526, 480..521, 521..718, 522..719		

Seq. No.	54384	Seq. ID	OJ000322_25.0417.C22
Gene No.	114070	Strand	-
Start	267	End	1339
Name	OJ000322_25.0417.C22.o1.gp	Method	AAT/GAP
Start	267	End	642
GI	uC-osflm202002a09b1	Score	709
Exons	267..642		
GI Descrip.	'3935183 4.0e-17 (AC004557) F17L21.26 [Arabidopsis thaliana]'		

Seq. No.	54384	Seq. ID	OJ000322_25.0417.C22
Gene No.	114070	Strand	-
Start	267	End	1339
Name	OJ000322_25.0417.C22.o1.tm	Method	TBLASTX:Maize
Start	298	End	627
GI	none	Score	295
Exons	298..627, 315..626		

Seq. No.	54384	Seq. ID	OJ000322_25.0417.C22
Gene No.	114070	Strand	-
Start	267	End	1339
Name	OJ000322_25.0417.C22.o1.gs	Method	GENSCAN
Start	318	End	671
GI	none	Score	.47
Exons	318..671		

Seq. No.	54384	Seq. ID	OJ000322_25.0417.C22
Gene No.	114070	Strand	-
Start	267	End	1339
Name	OJ000322_25.0417.C22.o1.np	Method	AAT/NAP
Start	345	End	1339
GI	3935183	Score	343
Exons	345..652, 1060..1185, 1291..1339		
GI Descrip.	(AC004557) F17L21.26 [Arabidopsis thaliana]		

Seq. No.	54384	Seq. ID	OJ000322_25.0417.C22

Gene No.	114070	Strand	-
Start	267	End	1339
Name	OJ000322_25.0417.C22.o1.tc	Method	TBLASTX:Cress
Start	348	End	654
GI	none	Score	120
Exons	348..653, 349..654		

Seq. No.	54384	Seq. ID	OJ000322_25.0417.C22
Gene No.	114070	Strand	-
Start	267	End	1339
Name	OJ000322_25.0417.C22.o1.ts	Method	TBLASTX:Soybean
Start	348	End	666
GI	none	Score	62
Exons	348..653, 421..666		

Seq. No.	54385	Seq. ID	OJ000322_25.0417.C25
Gene No.	114071	Strand	-
Start	1	End	2685
Name	OJ000322_25.0417.C25.o1.np	Method	AAT/NAP
Start	1	End	2481
GI	2134962	Score	826
Exons	1..292, 392..640, 954..1101, 1192..1267, 1363..1452, 1545..1636, 1740..1843, 1936..1998, 2354..2481		
GI Descrip.	cyclophilin-like protein CyP-60 - human gi|1199598|gb|AAC50376.1| (U37219) cyclophilin-like protein CyP-60 [Homo sapiens] gi|1587642|prf||2207180A cyclophilin:ISOTYPE=CyP-60 [Homo sapiens]		

Seq. No.	54385	Seq. ID	OJ000322_25.0417.C25
Gene No.	114071	Strand	-
Start	1	End	2685
Name	OJ000322_25.0417.C25.o1.tm	Method	TBLASTX:Maize
Start	73	End	437
GI	none	Score	273
Exons	73..294, 74..241, 75..293, 379..435, 380..436, 402..437		

Seq. No.	54385	Seq. ID	OJ000322_25.0417.C25
Gene No.	114071	Strand	-
Start	1	End	2685
Name	OJ000322_25.0417.C25.o1.gs	Method	GENSCAN
Start	85	End	2685
GI	none	Score	.85
Exons	85..292, 392..648, 740..1138, 1363..1481, 1535..1636, 1740..1843, 1936..1998, 2497..2685		

Seq. No.	54385	Seq. ID	OJ000322_25.0417.C25
Gene No.	114071	Strand	-
Start	1	End	2685
Name	OJ000322_25.0417.C25.o1.ts	Method	TBLASTX:Soybean
Start	87	End	772
GI	none	Score	78
Exons	87..233, 88..285, 89..241, 92..298, 376..519, 389..520, 391..648, 417..707, 728..772		

Seq. No.	54385	Seq. ID	OJ000322_25.0417.C25
Gene No.	114071	Strand	-
Start	1	End	2685

Name	OJ000322_25.0417.C25.o2.tc	Method	TBLASTX:Cress
Start	238	End	649
GI	none	Score	46
Exons	238..291, 379..648, 380..649		

Seq. No.	54385	Seq. ID	OJ000322_25.0417.C25
Gene No.	114071	Strand	-
Start	1	End	2685
Name	OJ000322_25.0417.C25.o2.tm	Method	TBLASTX:Maize
Start	571	End	929
GI	none	Score	86
Exons	571..648, 572..652, 573..650, 580..660, 723..779, 728..886, 729..779, 739..780, 819..929, 832..927		

Seq. No.	54385	Seq. ID	OJ000322_25.0417.C25
Gene No.	114071	Strand	-
Start	1	End	2685
Name	OJ000322_25.0417.C25.o2.ts	Method	TBLASTX:Soybean
Start	828	End	1638
GI	none	Score	57
Exons	828..872, 832..900, 943..1104, 980..1102, 1017..1121, 1193..1276, 1194..1295, 1363..1455, 1364..1453, 1545..1637, 1546..1638		

Seq. No.	54385	Seq. ID	OJ000322_25.0417.C25
Gene No.	114071	Strand	-
Start	1	End	2685
Name	OJ000322_25.0417.C25.o1.tc	Method	TBLASTX:Cress
Start	1384	End	2448
GI	none	Score	63
Exons	1384..1455, 1384..1455, 1545..1637, 1546..1641, 1735..1860, 1736..1846, 1938..1997, 1942..1998, 2353..2412, 2416..2448		

Seq. No.	54385	Seq. ID	OJ000322_25.0417.C25
Gene No.	114071	Strand	-
Start	1	End	2685
Name	OJ000322_25.0417.C25.o3.tm	Method	TBLASTX:Maize
Start	1733	End	2455
GI	none	Score	186
Exons	1733..1846, 1734..1841, 1735..1860, 1935..1997, 1935..1997, 1936..1998, 1948..1998, 2353..2454, 2357..2455		

Seq. No.	54385	Seq. ID	OJ000322_25.0417.C25
Gene No.	114071	Strand	-
Start	1	End	2685
Name	OJ000322_25.0417.C25.o3.ts	Method	TBLASTX:Soybean
Start	2353	End	2485
GI	none	Score	174
Exons	2353..2481, 2357..2485		

Seq. No.	54386	Seq. ID	OJ000322_25.0417.C26
Gene No.	114072	Strand	+
Start	586	End	3317
Name	OJ000322_25.0417.C26.o1.gs	Method	GENSCAN
Start	586	End	3317
GI	none	Score	.81
Exons	586..837, 1736..1880, 1971..2041, 2135..2338, 3066..3317		

Seq. No.	54386	Seq. ID	OJ000322_25.0417.C26
Gene No.	114072	Strand	+
Start	586	End	3317
Name	OJ000322_25.0417.C26.o1.tm	Method	TBLASTX:Maize
Start	696	End	2035
GI	none	Score	136
Exons	696..851, 697..840, 1733..1885, 1733..1873, 1734..1883, 1735..1929, 1735..1929, 1968..2033, 1969..2034, 1970..2035		

Seq. No.	54386	Seq. ID	OJ000322_25.0417.C26
Gene No.	114072	Strand	+
Start	586	End	3317
Name	OJ000322_25.0417.C26.o1.np	Method	AAT/NAP
Start	724	End	2385
GI	6723434	Score	250
Exons	724..796, 1716..1880, 1971..2041, 2135..2385		
GI Descrip.	(AL132965) putative protein [Arabidopsis thaliana]		

Seq. No.	54386	Seq. ID	OJ000322_25.0417.C26
Gene No.	114072	Strand	+
Start	586	End	3317
Name	OJ000322_25.0417.C26.o1.gp	Method	AAT/GAP
Start	1953	End	2912
GI	3763501	Score	1071
Exons	1953..2041, 2135..2338, 2603..2912		

Seq. No.	54387	Seq. ID	OJ000322_25.0417.C27
Gene No.	114073	Strand	+
Start	1	End	1919
Name	OJ000322_25.0417.C27.o1.np	Method	AAT/NAP
Start	1	End	1808
GI	3757517	Score	1153
Exons	1..1616, 1647..1808		
GI Descrip.	(AC005167) putative salt-inducible protein [Arabidopsis thaliana]		

Seq. No.	54387	Seq. ID	OJ000322_25.0417.C27
Gene No.	114073	Strand	+
Start	1	End	1919
Name	OJ000322_25.0417.C27.o1.gs	Method	GENSCAN
Start	45	End	1919
GI	none	Score	.99
Exons	45..1919		

Seq. No.	54387	Seq. ID	OJ000322_25.0417.C27
Gene No.	114073	Strand	+
Start	1	End	1919
Name	OJ000322_25.0417.C27.o1.tm	Method	TBLASTX:Maize
Start	102	End	1673
GI	none	Score	188
Exons	102..527, 102..464, 240..551, 630..701, 768..1412, 873..1517, 978..1610, 1092..1673		

Seq. No.	54387	Seq. ID	OJ000322_25.0417.C27
Gene No.	114073	Strand	+
Start	1	End	1919

Name	OJ000322_25.0417.C27.o1.ts	Method	TBLASTX:Soybean
Start	108	End	1610
GI	none	Score	130
Exons	108..545, 129..563, 129..548, 144..506, 224..307, 231..554, 360..707, 567..668, 567..701, 567..1223, 659..823, 665..862, 707..829, 768..863, 768..1025, 777..1610, 792..908, 870..1610, 893..1024, 936..1337, 986..1504, 993..1127, 1071..1538, 1076..1378, 1182..1559, 1280..1525, 1287..1610, 1301..1429, 1320..1439, 1425..1598		

Seq. No.	54387	Seq. ID	OJ000322_25.0417.C27
Gene No.	114073	Strand	+
Start	1	End	1919
Name	OJ000322_25.0417.C27.o1.tc	Method	TBLASTX:Cress
Start	111	End	1883
GI	none	Score	112
Exons	111..392, 111..293, 126..515, 204..398, 243..551, 312..533, 327..551, 341..514, 555..641, 567..704, 567..701, 567..701, 567..704, 768..815, 768..956, 776..946, 777..1127, 777..1028, 864..1235, 972..1337, 972..1133, 978..1154, 986..1195, 1023..1265, 1050..1436, 1091..1225, 1099..1269, 1143..1541, 1173..1376, 1224..1349, 1247..1465, 1248..1466, 1251..1610, 1298..1531, 1359..1574, 1412..1531, 1736..1882, 1737..1883, 1737..1865, 1737..1883		

Seq. No.	54388	Seq. ID	OJ000322_25.0417.C28
Gene No.	114074	Strand	+
Start	25	End	204
Name	OJ000322_25.0417.C28.o1.gs	Method	GENSCAN
Start	25	End	204
GI	none	Score	.47
Exons	25..204		

Seq. No.	54388	Seq. ID	OJ000322_25.0417.C28
Gene No.	114075	Strand	+
Start	1588	End	1991
Name	OJ000322_25.0417.C28.o1.gp	Method	AAT/GAP
Start	1588	End	1991
GI	426548	Score	543
Exons	1588..1813, 1921..1991		

Seq. No.	54389	Seq. ID	OJ000322_25.0417.C29
Gene No.	114076	Strand	+
Start	138	End	293
Name	OJ000322_25.0417.C29.o1.gs	Method	GENSCAN
Start	138	End	293
GI	none	Score	.47
Exons	138..293		

Seq. No.	54390	Seq. ID	OJ000322_25.0417.C30
Gene No.	114077	Strand	-
Start	1	End	2195
Name	OJ000322_25.0417.C30.o1.gp	Method	AAT/GAP
Start	1	End	934
GI	2973_1.R1084	Score	1306
Exons	1..296, 375..583, 651..737, 823..934		
GI Descrip.	'1172556/sp|P42056|POR6_SOLTU 1.0e-55 36 KD OUTER MITOCHONDRIAL		

MEMBRANE PROTEIN PORIN (VOLTAGE-DEPENDENT ANION-SELECTIVE CHANNEL PROTEIN) (VDAC) (POM 36) >gi_629729_pir__S46925 porin II, 36K - potato >gi_1076681_pir__B55364 porin (clone pPOM 36.2) - potato mitochondrion >gi_515360_emb_CAA56600_ (X80387) 36kDA porin II [Solanum tuberosum]'

Seq. No.	54390	Seq. ID	OJ000322_25.0417.C30
Gene No.	114077	Strand	-
Start	1	End	2195
Name	OJ000322_25.0417.C30.o1.tm	Method	TBLASTX:Maize
Start	1	End	956
GI	none	Score	362
Exons	1..294, 2..295, 3..296, 3..296, 374..589, 375..584, 550..588, 642..737, 649..738, 791..934, 820..933, 828..956, 833..937		

Seq. No.	54390	Seq. ID	OJ000322_25.0417.C30
Gene No.	114077	Strand	-
Start	1	End	2195
Name	OJ000322_25.0417.C30.o1.np	Method	AAT/NAP
Start	1	End	1044
GI	1172556	Score	450
Exons	1..296, 375..583, 651..737, 823..1044		
GI Descrip.	36 KD OUTER MITOCHONDRIAL MEMBRANE PROTEIN PORIN (VOLTAGE-DEPENDENT ANION-SELECTIVE CHANNEL PROTEIN) (VDAC) (POM 36) gi|629729|pir||S46925 porin II, 36K - potato gi|1076681|pir||B55364 porin (clone pPOM 36.2) - potato mitochondrion gi|515360|emb|CAA56600.1| (X80387) 36kDA porin II [Solanum tuberosum]		

Seq. No.	54390	Seq. ID	OJ000322_25.0417.C30
Gene No.	114077	Strand	-
Start	1	End	2195
Name	OJ000322_25.0417.C30.o1.tc	Method	TBLASTX:Cress
Start	2	End	956
GI	none	Score	58
Exons	2..49, 3..53, 53..118, 54..140, 122..292, 123..293, 374..586, 395..586, 648..737, 658..735, 809..931, 819..956, 820..930		

Seq. No.	54390	Seq. ID	OJ000322_25.0417.C30
Gene No.	114077	Strand	-
Start	1	End	2195
Name	OJ000322_25.0417.C30.o1.ts	Method	TBLASTX:Soybean
Start	2	End	937
GI	none	Score	257
Exons	2..292, 3..293, 374..586, 504..572, 629..706, 648..737, 651..737, 655..738, 820..930, 824..931, 827..937, 834..935		

Seq. No.	54390	Seq. ID	OJ000322_25.0417.C30
Gene No.	114077	Strand	-
Start	1	End	2195
Name	OJ000322_25.0417.C30.o1.gs	Method	GENSCAN
Start	89	End	2195
GI	none	Score	.69
Exons	89..296, 375..583, 651..737, 823..933, 1414..1460, 2110..2195		

Seq. No.	54390	Seq. ID	OJ000322_25.0417.C30
Gene No.	114077	Strand	-

Start	1	End	2195
Name	OJ000322_25.0417.C30.o1.tw	Method	TBLASTX:Wheat
Start	464	End	725
GI	none	Score	123
Exons	464..589, 464..586, 550..588, 648..725, 649..723		

Seq. No.	54391	Seq. ID	OJ000322_25.0417.C31
Gene No.	114078	Strand	+
Start	63	End	209
Name	OJ000322_25.0417.C31.o1.gs	Method	GENSCAN
Start	63	End	209
GI	none	Score	.49
Exons	63..209		

Seq. No.	54391	Seq. ID	OJ000322_25.0417.C31
Gene No.	114079	Strand	-
Start	260	End	7817
Name	OJ000322_25.0417.C31.o1.np	Method	AAT/NAP
Start	260	End	4003
GI	7380164	Score	232
Exons	260..297, 1328..1526, 1878..1980, 2070..2239, 2896..3033, 3639..3764, 3961..4003		
GI Descrip.	(AL162756) conserved hypothetical protein [Neisseria meningitidis]		

Seq. No.	54391	Seq. ID	OJ000322_25.0417.C31
Gene No.	114079	Strand	-
Start	260	End	7817
Name	OJ000322_25.0417.C31.o2.gs	Method	GENSCAN
Start	1284	End	7729
GI	none	Score	.63
Exons	1284..1526, 1878..1977, 2070..2239, 2896..3096, 3630..3764, 3961..4071, 4835..5000, 5033..5444, 5948..6032, 7367..7444, 7568..7729		

Seq. No.	54391	Seq. ID	OJ000322_25.0417.C31
Gene No.	114079	Strand	-
Start	260	End	7817
Name	OJ000322_25.0417.C31.o1.ts	Method	TBLASTX:Soybean
Start	1285	End	1931
GI	none	Score	49
Exons	1285..1341, 1338..1526, 1342..1527, 1869..1931		

Seq. No.	54391	Seq. ID	OJ000322_25.0417.C31
Gene No.	114079	Strand	-
Start	260	End	7817
Name	OJ000322_25.0417.C31.o1.tm	Method	TBLASTX:Maize
Start	1314	End	2163
GI	none	Score	150
Exons	1314..1526, 1314..1526, 1315..1527, 1324..1530, 1325..1531, 1846..1980, 1869..1985, 1877..1978, 2070..2162, 2071..2163, 2072..2161		

Seq. No.	54391	Seq. ID	OJ000322_25.0417.C31
Gene No.	114079	Strand	-
Start	260	End	7817
Name	OJ000322_25.0417.C31.o2.tm	Method	TBLASTX:Maize

Start	2180	End	3752
GI	none	Score	131
Exons	2180..2248, 2866..3039, 2885..3001, 2894..3043, 3625..3750, 3630..3752, 3630..3752		

Seq. No.	54391	Seq. ID	OJ000322_25.0417.C31
Gene No.	114079	Strand	-
Start	260	End	7817
Name	OJ000322_25.0417.C31.o1.tc	Method	TBLASTX:Cress
Start	2896	End	5208
GI	none	Score	91
Exons	2896..3012, 2897..3001, 3625..3765, 3629..3754, 3630..3767, 3630..3767, 3991..4071, 3992..4072, 4733..4762, 4835..4966, 4976..5002, 5128..5208		

Seq. No.	54391	Seq. ID	OJ000322_25.0417.C31
Gene No.	114079	Strand	-
Start	260	End	7817
Name	OJ000322_25.0417.C31.o2.ts	Method	TBLASTX:Soybean
Start	2950	End	4011
GI	none	Score	159
Exons	2950..3039, 3630..3767, 3631..3765, 3958..4011		

Seq. No.	54391	Seq. ID	OJ000322_25.0417.C31
Gene No.	114079	Strand	-
Start	260	End	7817
Name	OJ000322_25.0417.C31.o2.np	Method	AAT/NAP
Start	6103	End	7817
GI	7442627	Score	133
Exons	6103..6171, 7662..7817		
GI Descrip.	ABC-type heme transporter chain homolog - rice mitochondrion gi|499014|emb|CAA56116.1| (X79609) putative heme ABC transporter membrane domain [Triticum aestivum] gi|1395188|dbj|BAA10942.1| (D64067) ABC-type heme transporter subunit [Oryza sativa]		

Seq. No.	54392	Seq. ID	OJ000302_25.0419.C4
Gene No.	114080	Strand	-
Start	1	End	10499
Name	OJ000302_25.0419.C4.o1.np	Method	AAT/NAP
Start	1	End	2061
GI	6907089	Score	1138
Exons	1..574, 753..1089, 1126..2061		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	54392	Seq. ID	OJ000302_25.0419.C4
Gene No.	114080	Strand	-
Start	1	End	10499
Name	OJ000302_25.0419.C4.o2.np	Method	AAT/NAP
Start	833	End	10499
GI	6523547	Score	171
Exons	833..969, 2759..2885, 6141..6309, 6402..6502, 7232..7457, 7527..7748, 10470..10499		
GI Descrip.	(AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox carteri f. nagariensis]		

Seq. No.	54392	Seq. ID	OJ000302_25.0419.C4
Gene No.	114080	Strand	-

Start	1	End	10499
Name	OJ000302_25.0419.C4.o1.gp	Method	AAT/GAP
Start	8716	End	9319
GI	2798306	Score	650
Exons	8716..8978, 9113..9182, 9281..9319		
GI Descrip.	840704/dbj|D50643|D50643 9.0e-12 Rice DNA for 26 kDa globulin, complete cds		

Seq. No.	54392	Seq. ID	OJ000302_25.0419.C4
Gene No.	114080	Strand	-
Start	1	End	10499
Name	OJ000302_25.0419.C4.o3.np	Method	AAT/NAP
Start	8883	End	10499
GI	7385111	Score	178
Exons	8883..8978, 9113..9182, 9281..9471, 10428..10499		
GI Descrip.	(AF221849) FL10 [Mus musculus]		

Seq. No.	54392	Seq. ID	OJ000302_25.0419.C4
Gene No.	114080	Strand	-
Start	1	End	10499
Name	OJ000302_25.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	9111	End	9489
GI	none	Score	81
Exons	9111..9227, 9111..9182, 9113..9232, 9262..9489, 9280..9348, 9281..9478		

Seq. No.	54392	Seq. ID	OJ000302_25.0419.C4
Gene No.	114080	Strand	-
Start	1	End	10499
Name	OJ000302_25.0419.C4.o1.tc	Method	TBLASTX:Cress
Start	9113	End	9489
GI	none	Score	71
Exons	9113..9232, 9117..9236, 9265..9489, 9281..9472		

Seq. No.	54392	Seq. ID	OJ000302_25.0419.C4
Gene No.	114080	Strand	-
Start	1	End	10499
Name	OJ000302_25.0419.C4.o1.ts	Method	TBLASTX:Soybean
Start	9113	End	9489
GI	none	Score	94
Exons	9113..9232, 9280..9489, 9281..9478		

Seq. No.	54392	Seq. ID	OJ000302_25.0419.C4
Gene No.	114080	Strand	-
Start	1	End	10499
Name	OJ000302_25.0419.C4.o2.gp	Method	AAT/GAP
Start	9968	End	10052
GI	LIB3477-003-P1-K1-E9	Score	100
Exons	9968..10052		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	54393	Seq. ID	OJ000302_25.0419.C5
Gene No.	114081	Strand	+
Start	2458	End	9906
Name	OJ000302_25.0419.C5.o2.np	Method	AAT/NAP

Start	2458	End	9906
GI	728867	Score	118
Exons	2458..2602, 6788..6993, 8328..8493, 8917..9011, 9779..9906		
GI Descrip.	ANTER-SPECIFIC PROLINE-RICH PROTEIN APG PRECURSOR gi|99694|pir||S21961 proline-rich protein APG - Arabidopsis thaliana gi|22599|emb|CAA42925| (X60377) APG [Arabidopsis thaliana]		

Seq. No.	54393	Seq. ID	OJ000302_25.0419.C5
Gene No.	114081	Strand	+
Start	2458	End	9906
Name	OJ000302_25.0419.C5.o2.gs	Method	GENSCAN
Start	5113	End	7421
GI	none	Score	.62
Exons	5113..5253, 7158..7421		

Seq. No.	54393	Seq. ID	OJ000302_25.0419.C5
Gene No.	114081	Strand	+
Start	2458	End	9906
Name	OJ000302_25.0419.C5.o3.gs	Method	GENSCAN
Start	8222	End	8542
GI	none	Score	.68
Exons	8222..8542		

Seq. No.	54393	Seq. ID	OJ000302_25.0419.C5
Gene No.	114081	Strand	+
Start	2458	End	9906
Name	OJ000302_25.0419.C5.o4.gs	Method	GENSCAN
Start	8880	End	9840
GI	none	Score	.78
Exons	8880..9240, 9344..9840		

Seq. No.	54393	Seq. ID	OJ000302_25.0419.C5
Gene No.	114082	Strand	-
Start	301	End	2287
Name	OJ000302_25.0419.C5.o1.np	Method	AAT/NAP
Start	301	End	2287
GI	7293619	Score	207
Exons	301..407, 1325..1367, 1448..1537, 1800..1902, 2163..2287		
GI Descrip.	(AE003512) CG14213 gene product [Drosophila melanogaster]		

Seq. No.	54393	Seq. ID	OJ000302_25.0419.C5
Gene No.	114083	Strand	
Start	8239	End	8491
Name	OJ000302_25.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	8239	End	8491
GI	none	Score	144
Exons	8239..8367, 8240..8365, 8386..8490, 8387..8491		

Seq. No.	54394	Seq. ID	OJ000302_25.0419.C6
Gene No.	114084	Strand	-
Start	380	End	1890
Name	OJ000302_25.0419.C6.o1.tm	Method	TBLASTX:Maize
Start	366	End	1449
GI	none	Score	123
Exons	366..476, 368..538, 369..476, 1018..1143, 1046..1138, 1051..1143, 1305..1427, 1315..1449, 1317..1448		

Seq. No.	54394	Seq. ID	OJ000302_25.0419.C6
Gene No.	114084	Strand	-
Start	380	End	1890
Name	OJ000302_25.0419.C6.o1.np	Method	AAT/NAP
Start	380	End	1890
GI	5734782	Score	299
Exons	380..487, 1048..1140, 1317..1441, 1809..1890		
GI Descrip.	(AC007980) 93341 [Arabidopsis thaliana]		

Seq. No.	54394	Seq. ID	OJ000302_25.0419.C6
Gene No.	114084	Strand	-
Start	380	End	1890
Name	OJ000302_25.0419.C6.o1.gs	Method	GENSCAN
Start	442	End	1444
GI	none	Score	.51
Exons	442..487, 1048..1140, 1317..1444		

Seq. No.	54395	Seq. ID	OJ000302_25.0419.C7
Gene No.	114085	Strand	+
Start	1670	End	8187
Name	OJ000302_25.0419.C7.o1.gs	Method	GENSCAN
Start	1670	End	8162
GI	none	Score	.57
Exons	1670..1751, 2522..2616, 3739..3846, 5680..6366, 6460..6651, 6735..6860, 6949..7277, 7379..8162		

Seq. No.	54395	Seq. ID	OJ000302_25.0419.C7
Gene No.	114085	Strand	+
Start	1670	End	8187
Name	OJ000302_25.0419.C7.o1.np	Method	AAT/NAP
Start	5975	End	8187
GI	6013196	Score	1323
Exons	5975..7284, 7386..7616, 7647..8187		
GI Descrip.	(AF174433) heat shock protein 101 [Triticum aestivum]		

Seq. No.	54395	Seq. ID	OJ000302_25.0419.C7
Gene No.	114086	Strand	-
Start	1147	End	1974
Name	OJ000302_25.0419.C7.o1.gp	Method	AAT/GAP
Start	1147	End	1974
GI	701136	Score	780
Exons	1147..1242, 1347..1502, 1790..1974		

Seq. No.	54395	Seq. ID	OJ000302_25.0419.C7
Gene No.	114087	Strand	-
Start	5432	End	9236
Name	OJ000302_25.0419.C7.o2.np	Method	AAT/NAP
Start	5432	End	9236
GI	6721547	Score	80
Exons	5432..5506, 9124..9236		
GI Descrip.	(AP001073) Similar to Oryza sativa gene for Pib. (AB013448)		

Seq. No.	54395	Seq. ID	OJ000302_25.0419.C7
Gene No.	114087	Strand	-
Start	5432	End	9236
Name	OJ000302_25.0419.C7.o1.tc	Method	TBLASTX:Cress

Start	5977	End	8012
GI	none	Score	287
Exons	5977..6279, 5988..6260, 6313..6375, 6375..6575, 6376..6588, 6591..6653, 6596..6652, 6711..6785, 6719..6775, 6831..6863, 6946..7266, 7026..7283, 7386..7598, 7389..7532, 7674..7886, 7686..7901, 7892..7954, 7893..8012		

Seq. No.	54395	Seq. ID	OJ000302_25.0419.C7
Gene No.	114087	Strand	-
Start	5432	End	9236
Name	OJ000302_25.0419.C7.o2.tm	Method	TBLASTX:Maize
Start	5977	End	6188
GI	none	Score	215
Exons	5977..6174, 5988..6188		

Seq. No.	54395	Seq. ID	OJ000302_25.0419.C7
Gene No.	114087	Strand	-
Start	5432	End	9236
Name	OJ000302_25.0419.C7.o1.ts	Method	TBLASTX:Soybean
Start	5977	End	8042
GI	none	Score	289
Exons	5977..6279, 5988..6275, 6313..6375, 6375..6584, 6376..6588, 6591..6653, 6711..6785, 6946..7266, 7029..7283, 7385..7432, 7386..7598, 7419..7532, 7665..7886, 7685..7831, 7892..7954, 7893..8042		

Seq. No.	54395	Seq. ID	OJ000302_25.0419.C7
Gene No.	114087	Strand	-
Start	5432	End	9236
Name	OJ000302_25.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	6196	End	8042
GI	none	Score	75
Exons	6196..6279, 6196..6279, 6313..6375, 6375..6587, 6376..6588, 6591..6653, 6596..6652, 6717..6785, 6719..6784, 6946..7266, 7029..7283, 7386..7598, 7395..7532, 7674..7886, 7685..7885, 7686..7886, 7823..8038, 7893..8042		

Seq. No.	54395	Seq. ID	OJ000302_25.0419.C7
Gene No.	114087	Strand	-
Start	5432	End	9236
Name	OJ000302_25.0419.C7.o1.tw	Method	TBLASTX:Wheat
Start	7155	End	7598
GI	none	Score	123
Exons	7155..7274, 7156..7266, 7385..7435, 7386..7598		

Seq. No.	54396	Seq. ID	OJ000302_25.0419.C8
Gene No.	114088	Strand	+
Start	1556	End	3527
Name	OJ000302_25.0419.C8.o1.gs	Method	GENSCAN
Start	1556	End	2382
GI	none	Score	.78
Exons	1556..1957, 2035..2382		

Seq. No.	54396	Seq. ID	OJ000302_25.0419.C8
Gene No.	114088	Strand	+
Start	1556	End	3527
Name	OJ000302_25.0419.C8.o2.np	Method	AAT/NAP

Start	1667	End	3527
GI	4680214	Score	169
Exons	1667..1957, 2035..2301, 3507..3527		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	54396	Seq. ID	OJ000302_25.0419.C8
Gene No.	114088	Strand	+
Start	1556	End	3527
Name	OJ000302_25.0419.C8.o1.gp	Method	AAT/GAP
Start	2351	End	3042
GI	3548940	Score	995
Exons	2351..3042		

Seq. No.	54396	Seq. ID	OJ000302_25.0419.C8
Gene No.	114089	Strand	-
Start	2499	End	3636
Name	OJ000302_25.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	1631	End	2136
GI	none	Score	211
Exons	1631..1954, 2050..2136		

Seq. No.	54396	Seq. ID	OJ000302_25.0419.C8
Gene No.	114089	Strand	-
Start	2499	End	3636
Name	OJ000302_25.0419.C8.o2.gs	Method	GENSCAN
Start	2499	End	3636
GI	none	Score	.75
Exons	2499..2752, 2940..3155, 3299..3484, 3490..3636		

Seq. No.	54397	Seq. ID	OJ000302_25.0419.C11
Gene No.	114090	Strand	+
Start	1	End	382
Name	OJ000302_25.0419.C11.o1.np	Method	AAT/NAP
Start	1	End	382
GI	7363274	Score	171
Exons	1..382		
GI Descrip.	(AP001552) Similar to Arabidopsis thaliana DNA chromosome 4, BAC clone F17A8; putative protein. (AL049482) [Oryza sativa]		

Seq. No.	54397	Seq. ID	OJ000302_25.0419.C11
Gene No.	114091	Strand	-
Start	1312	End	2228
Name	OJ000302_25.0419.C11.o1.gs	Method	GENSCAN
Start	1312	End	2228
GI	none	Score	.41
Exons	1312..1318, 2053..2228		

Seq. No.	54398	Seq. ID	OJ000302_25.0419.C12
Gene No.	114092	Strand	-
Start	1439	End	1947
Name	OJ000302_25.0419.C12.o1.gs	Method	GENSCAN
Start	1439	End	1947
GI	none	Score	.49
Exons	1439..1499, 1855..1947		

Seq. No.	54399	Seq. ID	OJ000302_25.0419.C13
Gene No.	114093	Strand	+

Start	1	End	4974
Name	OJ000302_25.0419.C13.o1.np	Method	AAT/NAP
Start	1	End	2749
GI	1418331	Score	1592
Exons	1..29, 901..2749		
GI Descrip.	(X95909) receptor like protein kinase [Arabidopsis thaliana]		

Seq. No.	54399	Seq. ID	OJ000302_25.0419.C13
Gene No.	114093	Strand	+
Start	1	End	4974
Name	OJ000302_25.0419.C13.o2.np	Method	AAT/NAP
Start	1891	End	4974
GI	7339707	Score	35
Exons	1891..1911, 4130..4348, 4665..4811, 4955..4974		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	54399	Seq. ID	OJ000302_25.0419.C13
Gene No.	114094	Strand	-
Start	1137	End	1522
Name	OJ000302_25.0419.C13.o1.gp	Method	AAT/GAP
Start	1137	End	1522
GI	LIB3432-007-P1-K1-F10	Score	754
Exons	1137..1522		
GI Descrip.	'3236253 1.0e-33 (AC004684) receptor-like protein kinase [Arabidopsis thaliana]'		

Seq. No.	54399	Seq. ID	OJ000302_25.0419.C13
Gene No.	114095	Strand	-
Start	3781	End	4358
Name	OJ000302_25.0419.C13.o1.tc	Method	TBLASTX:Cress
Start	899	End	2736
GI	none	Score	114
Exons	899..1036, 901..1035, 1073..1369, 1132..1347, 1331..1687, 1402..1635, 1781..2146, 1828..2034, 2110..2154, 2162..2491, 2191..2319, 2365..2490, 2512..2736, 2516..2731		

Seq. No.	54399	Seq. ID	OJ000302_25.0419.C13
Gene No.	114095	Strand	-
Start	3781	End	4358
Name	OJ000302_25.0419.C13.o2.ts	Method	TBLASTX:Soybean
Start	910	End	1486
GI	none	Score	128
Exons	910..1026, 911..1042, 1075..1173, 1079..1180, 1189..1335, 1190..1363, 1334..1486		

Seq. No.	54399	Seq. ID	OJ000302_25.0419.C13
Gene No.	114095	Strand	-
Start	3781	End	4358
Name	OJ000302_25.0419.C13.o4.tm	Method	TBLASTX:Maize
Start	920	End	1270
GI	none	Score	143
Exons	920..1030, 922..1026, 929..1033, 1067..1270, 1067..1180		

Seq. No.	54399	Seq. ID	OJ000302_25.0419.C13
Gene No.	114095	Strand	-
Start	3781	End	4358
Name	OJ000302_25.0419.C13.o2.tw	Method	TBLASTX:Wheat

Start	1220	End	1588
GI	none	Score	284
Exons	1220..1588, 1237..1317, 1402..1578		

Seq. No.	54399	Seq. ID	OJ000302_25.0419.C13
Gene No.	114095	Strand	-
Start	3781	End	4358
Name	OJ000302_25.0419.C13.o2.tm	Method	TBLASTX:Maize
Start	1282	End	1686
GI	none	Score	395
Exons	1282..1335, 1283..1684, 1381..1686, 1411..1644		

Seq. No.	54399	Seq. ID	OJ000302_25.0419.C13
Gene No.	114095	Strand	-
Start	3781	End	4358
Name	OJ000302_25.0419.C13.o1.ts	Method	TBLASTX:Soybean
Start	1865	End	2380
GI	none	Score	356
Exons	1865..2143, 1867..2055, 1868..2140, 2156..2380, 2161..2379, 2171..2380		

Seq. No.	54399	Seq. ID	OJ000302_25.0419.C13
Gene No.	114095	Strand	-
Start	3781	End	4358
Name	OJ000302_25.0419.C13.o1.tw	Method	TBLASTX:Wheat
Start	1889	End	2320
GI	none	Score	235
Exons	1889..2161, 1900..2055, 1991..2173, 2165..2320, 2188..2319		

Seq. No.	54399	Seq. ID	OJ000302_25.0419.C13
Gene No.	114095	Strand	-
Start	3781	End	4358
Name	OJ000302_25.0419.C13.o1.tm	Method	TBLASTX:Maize
Start	1918	End	2494
GI	none	Score	356
Exons	1918..2055, 1919..2164, 1922..2158, 2110..2163, 2129..2359, 2152..2493, 2162..2494		

Seq. No.	54399	Seq. ID	OJ000302_25.0419.C13
Gene No.	114095	Strand	-
Start	3781	End	4358
Name	OJ000302_25.0419.C13.o3.ts	Method	TBLASTX:Soybean
Start	2393	End	2710
GI	none	Score	219
Exons	2393..2710, 2428..2709		

Seq. No.	54399	Seq. ID	OJ000302_25.0419.C13
Gene No.	114095	Strand	-
Start	3781	End	4358
Name	OJ000302_25.0419.C13.o3.tm	Method	TBLASTX:Maize
Start	2497	End	2829
GI	none	Score	280
Exons	2497..2781, 2510..2818, 2773..2829		

Seq. No.	54399	Seq. ID	OJ000302_25.0419.C13
Gene No.	114095	Strand	-
Start	3781	End	4358

Name	OJ000302_25.0419.C13.o2.gp	Method	AAT/GAP
Start	3781	End	4358
GI	none	Score	787
Exons	3781..3901, 4005..4358		

Seq. No.	54400	Seq. ID	OJ000302_25.0419.C14
Gene No.	114096	Strand	+
Start	397	End	711
Name	OJ000302_25.0419.C14.o1.gs	Method	GENSCAN
Start	397	End	711
GI	none	Score	.54
Exons	397..564, 698..711		

Seq. No.	54400	Seq. ID	OJ000302_25.0419.C14
Gene No.	114097	Strand	+
Start	4189	End	6139
Name	OJ000302_25.0419.C14.o3.np	Method	AAT/NAP
Start	4189	End	6139
GI	4680186	Score	85
Exons	4189..4229, 5934..6139		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	54400	Seq. ID	OJ000302_25.0419.C14
Gene No.	114098	Strand	-
Start	1	End	7321
Name	OJ000302_25.0419.C14.o1.np	Method	AAT/NAP
Start	1	End	4095
GI	5852181	Score	101
Exons	1..30, 720..852, 4066..4095		
GI Descrip.	(AL117265) zhb0011.1 [Oryza sativa]		

Seq. No.	54400	Seq. ID	OJ000302_25.0419.C14
Gene No.	114098	Strand	-
Start	1	End	7321
Name	OJ000302_25.0419.C14.o2.gs	Method	GENSCAN
Start	2395	End	7320
GI	none	Score	.48
Exons	2395..2466, 3054..3061, 3419..3985, 4099..4157, 4330..4352, 4435..5121, 6952..7320		

Seq. No.	54400	Seq. ID	OJ000302_25.0419.C14
Gene No.	114098	Strand	-
Start	1	End	7321
Name	OJ000302_25.0419.C14.o2.np	Method	AAT/NAP
Start	3237	End	7321
GI	6691191	Score	639
Exons	3237..3265, 4383..5103, 7298..7321		
GI Descrip.	(AC007534) F7F22.15 [Arabidopsis thaliana]		

Seq. No.	54400	Seq. ID	OJ000302_25.0419.C14
Gene No.	114098	Strand	-
Start	1	End	7321
Name	OJ000302_25.0419.C14.o1.ts	Method	TBLASTX:Soybean
Start	4384	End	4815
GI	none	Score	168
Exons	4384..4416, 4432..4815, 4433..4813		

Seq. No.	54400	Seq. ID	OJ000302_25.0419.C14
Gene No.	114098	Strand	-
Start	1	End	7321
Name	OJ000302_25.0419.C14.o1.tw	Method	TBLASTX:Wheat
Start	4423	End	4804
GI	none	Score	163
Exons	4423..4803, 4424..4747, 4781..4804		

Seq. No.	54400	Seq. ID	OJ000302_25.0419.C14
Gene No.	114098	Strand	-
Start	1	End	7321
Name	OJ000302_25.0419.C14.o2.tw	Method	TBLASTX:Wheat
Start	4807	End	5103
GI	none	Score	129
Exons	4807..5103, 4850..5074		

Seq. No.	54400	Seq. ID	OJ000302_25.0419.C14
Gene No.	114098	Strand	-
Start	1	End	7321
Name	OJ000302_25.0419.C14.o2.ts	Method	TBLASTX:Soybean
Start	4816	End	5076
GI	none	Score	162
Exons	4816..5076, 4817..5074		

Seq. No.	54401	Seq. ID	OJ000302_25.0419.C15
Gene No.	114099	Strand	+
Start	1	End	4515
Name	OJ000302_25.0419.C15.o1.np	Method	AAT/NAP
Start	1	End	1317
GI	4416301	Score	125
Exons	1..311, 1116..1317		
GI Descrip.	(AF105716) gag protein [Zea mays]		

Seq. No.	54401	Seq. ID	OJ000302_25.0419.C15
Gene No.	114099	Strand	+
Start	1	End	4515
Name	OJ000302_25.0419.C15.o1.gs	Method	GENSCAN
Start	243	End	4515
GI	none	Score	.59
Exons	243..795, 896..1028, 1173..1299, 1331..1487, 1736..4515		

Seq. No.	54401	Seq. ID	OJ000302_25.0419.C15
Gene No.	114099	Strand	+
Start	1	End	4515
Name	OJ000302_25.0419.C15.o2.np	Method	AAT/NAP
Start	1403	End	4512
GI	6630685	Score	4646
Exons	1403..1474, 1765..4512		
GI Descrip.	(AP000969) Similar to copia-type pol polyprotein. (AF105716) [Oryza sativa]		

Seq. No.	54401	Seq. ID	OJ000302_25.0419.C15
Gene No.	114100	Strand	+
Start	4790	End	18763
Name	OJ000302_25.0419.C15.o5.np	Method	AAT/NAP
Start	4790	End	18763
GI	6691191	Score	1583

Exons	4790..4919, 14094..14646, 17818..18763		
GI Descrip.	(AC007534) F7F22.15 [Arabidopsis thaliana]		

Seq. No.	54401	Seq. ID	OJ000302_25.0419.C15
Gene No.	114100	Strand	+
Start	4790	End	18763
Name	OJ000302_25.0419.C15.o3.gs	Method	GENSCAN
Start	9362	End	14722
GI	none	Score	.67
Exons	9362..9364, 9421..9601, 10315..10479, 12571..12711, 12955..13469, 13514..14722		

Seq. No.	54401	Seq. ID	OJ000302_25.0419.C15
Gene No.	114100	Strand	+
Start	4790	End	18763
Name	OJ000302_25.0419.C15.o6.gs	Method	GENSCAN
Start	17827	End	18222
GI	none	Score	.92
Exons	17827..18222		

Seq. No.	54401	Seq. ID	OJ000302_25.0419.C15
Gene No.	114101	Strand	-
Start	6960	End	11479
Name	OJ000302_25.0419.C15.o3.np	Method	AAT/NAP
Start	6960	End	11479
GI	6815052	Score	1659
Exons	6960..7080, 7349..7424, 7506..7731, 8036..8505, 8553..8694, 9483..9571, 10380..10480, 10778..10901, 11170..11244, 11326..11479		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	54401	Seq. ID	OJ000302_25.0419.C15
Gene No.	114102	Strand	-
Start	15220	End	15543
Name	OJ000302_25.0419.C15.o4.gs	Method	GENSCAN
Start	15220	End	15543
GI	none	Score	.81
Exons	15220..15371, 15507..15543		

Seq. No.	54401	Seq. ID	OJ000302_25.0419.C15
Gene No.	114103	Strand	-
Start	16619	End	17886
Name	OJ000302_25.0419.C15.o6.tm	Method	TBLASTX:Maize
Start	1236	End	1576
GI	none	Score	96
Exons	1236..1310, 1237..1314, 1339..1575, 1340..1576		

Seq. No.	54401	Seq. ID	OJ000302_25.0419.C15
Gene No.	114103	Strand	-
Start	16619	End	17886
Name	OJ000302_25.0419.C15.o8.tw	Method	TBLASTX:Wheat
Start	1310	End	1585
GI	none	Score	221
Exons	1310..1585, 1355..1396, 1441..1569		

Seq. No.	54401	Seq. ID	OJ000302_25.0419.C15
Gene No.	114103	Strand	-

Start	16619	End	17886
Name	OJ000302_25.0419.C15.o5.tm	Method	TBLASTX:Maize
Start	1577	End	1971
GI	none	Score	89
Exons	1577..1696, 1585..1692, 1696..1821, 1701..1778, 1703..1822, 1819..1959, 1824..1961, 1825..1971, 1827..1970		

Seq. No.	54401	Seq. ID	OJ000302_25.0419.C15
Gene No.	114103	Strand	-
Start	16619	End	17886
Name	OJ000302_25.0419.C15.o2.tw	Method	TBLASTX:Wheat
Start	1708	End	2307
GI	none	Score	103
Exons	1708..1761, 1745..1822, 1825..1983, 1830..1967, 1995..2021, 2019..2306, 2023..2307		

Seq. No.	54401	Seq. ID	OJ000302_25.0419.C15
Gene No.	114103	Strand	-
Start	16619	End	17886
Name	OJ000302_25.0419.C15.o2.tm	Method	TBLASTX:Maize
Start	1972	End	2844
GI	none	Score	111
Exons	1972..2043, 1977..2717, 2044..2844, 2721..2762		

Seq. No.	54401	Seq. ID	OJ000302_25.0419.C15
Gene No.	114103	Strand	-
Start	16619	End	17886
Name	OJ000302_25.0419.C15.o3.ts	Method	TBLASTX:Soybean
Start	2152	End	2613
GI	none	Score	312
Exons	2152..2613, 2172..2462, 2176..2529		

Seq. No.	54401	Seq. ID	OJ000302_25.0419.C15
Gene No.	114103	Strand	-
Start	16619	End	17886
Name	OJ000302_25.0419.C15.o1.tc	Method	TBLASTX:Cress
Start	2188	End	2610
GI	none	Score	222
Exons	2188..2610		

Seq. No.	54401	Seq. ID	OJ000302_25.0419.C15
Gene No.	114103	Strand	-
Start	16619	End	17886
Name	OJ000302_25.0419.C15.o6.tw	Method	TBLASTX:Wheat
Start	2395	End	2739
GI	none	Score	116
Exons	2395..2478, 2398..2484, 2473..2637, 2484..2648, 2659..2739, 2659..2739		

Seq. No.	54401	Seq. ID	OJ000302_25.0419.C15
Gene No.	114103	Strand	-
Start	16619	End	17886
Name	OJ000302_25.0419.C15.o4.tm	Method	TBLASTX:Maize
Start	2851	End	3170
GI	none	Score	478
Exons	2851..3168, 2853..3170		

Seq. No.	54401	Seq. ID	OJ000302_25.0419.C15
Gene No.	114103	Strand	-
Start	16619	End	17886
Name	OJ000302_25.0419.C15.o1.ts	Method	TBLASTX:Soybean
Start	2878	End	3485
GI	5509260	Score	238
Exons	2878..3093, 2880..3092, 2968..3108, 3102..3485, 3103..3483		
GI Descrip.	-		

Seq. No.	54401	Seq. ID	OJ000302_25.0419.C15
Gene No.	114103	Strand	-
Start	16619	End	17886
Name	OJ000302_25.0419.C15.o3.tw	Method	TBLASTX:Wheat
Start	3003	End	3464
GI	none	Score	89
Exons	3003..3092, 3019..3093, 3087..3122, 3114..3269, 3122..3328, 3124..3456, 3126..3464		

Seq. No.	54401	Seq. ID	OJ000302_25.0419.C15
Gene No.	114103	Strand	-
Start	16619	End	17886
Name	OJ000302_25.0419.C15.o3.tc	Method	TBLASTX:Cress
Start	3085	End	3366
GI	none	Score	209
Exons	3085..3366, 3087..3347		

Seq. No.	54401	Seq. ID	OJ000302_25.0419.C15
Gene No.	114103	Strand	-
Start	16619	End	17886
Name	OJ000302_25.0419.C15.o3.tm	Method	TBLASTX:Maize
Start	3288	End	3723
GI	none	Score	621
Exons	3288..3722, 3289..3723		

Seq. No.	54401	Seq. ID	OJ000302_25.0419.C15
Gene No.	114103	Strand	-
Start	16619	End	17886
Name	OJ000302_25.0419.C15.o1.tm	Method	TBLASTX:Maize
Start	3838	End	4562
GI	none	Score	979
Exons	3838..4509, 3845..4291, 3846..4535, 4329..4562		

Seq. No.	54401	Seq. ID	OJ000302_25.0419.C15
Gene No.	114103	Strand	-
Start	16619	End	17886
Name	OJ000302_25.0419.C15.o2.ts	Method	TBLASTX:Soybean
Start	3856	End	4497
GI	none	Score	296
Exons	3856..4245, 3861..4244, 4257..4349, 4273..4497		

Seq. No.	54401	Seq. ID	OJ000302_25.0419.C15
Gene No.	114103	Strand	-
Start	16619	End	17886
Name	OJ000302_25.0419.C15.o2.tc	Method	TBLASTX:Cress
Start	4039	End	4494
GI	none	Score	63
Exons	4039..4125, 4129..4263, 4275..4442, 4282..4494		

Seq. No.	54401	Seq. ID	OJ000302_25.0419.C15
Gene No.	114103	Strand	-
Start	16619	End	17886
Name	OJ000302_25.0419.C15.o9.tw	Method	TBLASTX:Wheat
Start	4048	End	4461
GI	none	Score	119
Exons	4048..4254, 4149..4229, 4273..4461, 4332..4448		

Seq. No.	54401	Seq. ID	OJ000302_25.0419.C15
Gene No.	114103	Strand	-
Start	16619	End	17886
Name	OJ000302_25.0419.C15.o7.tw	Method	TBLASTX:Wheat
Start	8764	End	9258
GI	none	Score	94
Exons	8764..9054, 8774..9055, 9079..9237, 9079..9258		

Seq. No.	54401	Seq. ID	OJ000302_25.0419.C15
Gene No.	114103	Strand	-
Start	16619	End	17886
Name	OJ000302_25.0419.C15.o4.ts	Method	TBLASTX:Soybean
Start	14291	End	17886
GI	none	Score	309
Exons	14291..14644, 14293..14634, 17812..17886		

Seq. No.	54401	Seq. ID	OJ000302_25.0419.C15
Gene No.	114103	Strand	-
Start	16619	End	17886
Name	OJ000302_25.0419.C15.o5.tw	Method	TBLASTX:Wheat
Start	14291	End	17865
GI	none	Score	327
Exons	14291..14686, 14293..14619, 17812..17865		

Seq. No.	54401	Seq. ID	OJ000302_25.0419.C15
Gene No.	114103	Strand	-
Start	16619	End	17886
Name	OJ000302_25.0419.C15.o5.gs	Method	GENSCAN
Start	16619	End	16957
GI	none	Score	.61
Exons	16619..16957		

Seq. No.	54401	Seq. ID	OJ000302_25.0419.C15
Gene No.	114104	Strand	
Start	17962	End	18697
Name	OJ000302_25.0419.C15.o1.tw	Method	TBLASTX:Wheat
Start	17962	End	18393
GI	none	Score	513
Exons	17962..18393, 17964..18383		

Seq. No.	54401	Seq. ID	OJ000302_25.0419.C15
Gene No.	114104	Strand	
Start	17962	End	18697
Name	OJ000302_25.0419.C15.o7.tm	Method	TBLASTX:Maize
Start	18127	End	18540
GI	none	Score	270
Exons	18127..18540, 18282..18539		

Seq. No.	54401	Seq. ID	OJ000302_25.0419.C15
Gene No.	114104	Strand	
Start	17962	End	18697
Name	OJ000302_25.0419.C15.o5.ts	Method	TBLASTX:Soybean
Start	18262	End	18606
GI	none	Score	66
Exons	18262..18318, 18318..18587, 18319..18606, 18319..18606		

Seq. No.	54401	Seq. ID	OJ000302_25.0419.C15
Gene No.	114104	Strand	
Start	17962	End	18697
Name	OJ000302_25.0419.C15.o4.tw	Method	TBLASTX:Wheat
Start	18393	End	18697
GI	none	Score	288
Exons	18393..18584, 18397..18624, 18397..18627, 18420..18626, 18616..18696, 18620..18697		

Seq. No.	54402	Seq. ID	OJ000302_25.0419.C19
Gene No.	114105	Strand	+
Start	389	End	562
Name	OJ000302_25.0419.C19.o1.gs	Method	GENSCAN
Start	389	End	562
GI	none	Score	.48
Exons	389..416, 445..562		

Seq. No.	54403	Seq. ID	OJ000302_25.0419.C20
Gene No.	114106	Strand	-
Start	1044	End	2246
Name	OJ000302_25.0419.C20.o1.np	Method	AAT/NAP
Start	1044	End	2246
GI	7446441	Score	1013
Exons	1044..2246		
GI Descrip.	probable serine/threonine-specific protein kinase F13M22.21 (EC 2.7.1.-) - Arabidopsis thaliana gi|3236253|gb|AAC23641.1| (AC004684) putative receptor-like protein kinase [Arabidopsis thaliana]		

Seq. No.	54403	Seq. ID	OJ000302_25.0419.C20
Gene No.	114106	Strand	-
Start	1044	End	2246
Name	OJ000302_25.0419.C20.o2.tm	Method	TBLASTX:Maize
Start	1111	End	1346
GI	none	Score	189
Exons	1111..1290, 1131..1346		

Seq. No.	54403	Seq. ID	OJ000302_25.0419.C20
Gene No.	114106	Strand	-
Start	1044	End	2246
Name	OJ000302_25.0419.C20.o2.tw	Method	TBLASTX:Wheat
Start	1140	End	1556
GI	none	Score	70
Exons	1140..1556, 1423..1542		

Seq. No.	54403	Seq. ID	OJ000302_25.0419.C20
Gene No.	114106	Strand	-
Start	1044	End	2246
Name	OJ000302_25.0419.C20.o1.tc	Method	TBLASTX:Cress

Start	1180	End	2169
GI	none	Score	92
Exons	1180..1293, 1182..1337, 1410..1748, 1416..1742, 1423..1746, 1770..2159, 1771..1959, 1776..2168, 2029..2169		

Seq. No.	54403	Seq. ID	OJ000302_25.0419.C20
Gene No.	114106	Strand	-
Start	1044	End	2246
Name	OJ000302_25.0419.C20.o2.ts	Method	TBLASTX:Soybean
Start	1212	End	1533
GI	none	Score	79
Exons	1212..1532, 1363..1533		

Seq. No.	54403	Seq. ID	OJ000302_25.0419.C20
Gene No.	114106	Strand	-
Start	1044	End	2246
Name	OJ000302_25.0419.C20.o1.gs	Method	GENSCAN
Start	1322	End	2240
GI	none	Score	.46
Exons	1322..2240		

Seq. No.	54403	Seq. ID	OJ000302_25.0419.C20
Gene No.	114106	Strand	-
Start	1044	End	2246
Name	OJ000302_25.0419.C20.o1.tm	Method	TBLASTX:Maize
Start	1419	End	1996
GI	none	Score	178
Exons	1419..1748, 1422..1748, 1423..1764, 1553..1891, 1758..1994, 1768..1974, 1777..1995, 1781..1996		

Seq. No.	54403	Seq. ID	OJ000302_25.0419.C20
Gene No.	114106	Strand	-
Start	1044	End	2246
Name	OJ000302_25.0419.C20.o1.ts	Method	TBLASTX:Soybean
Start	1534	End	2051
GI	none	Score	91
Exons	1534..1749, 1536..1751, 1536..1751, 1770..2051, 1774..1974, 1776..2039		

Seq. No.	54403	Seq. ID	OJ000302_25.0419.C20
Gene No.	114106	Strand	-
Start	1044	End	2246
Name	OJ000302_25.0419.C20.o1.tw	Method	TBLASTX:Wheat
Start	1593	End	2024
GI	none	Score	89
Exons	1593..1748, 1749..2024, 1771..1929		

Seq. No.	54404	Seq. ID	OJ000302_25.0419.C21
Gene No.	114107	Strand	+
Start	2447	End	5322
Name	OJ000302_25.0419.C21.o2.gs	Method	GENSCAN
Start	2447	End	5322
GI	none	Score	.58
Exons	2447..2494, 2945..3054, 3430..3503, 4885..5322		

Seq. No.	54404	Seq. ID	OJ000302_25.0419.C21
Gene No.	114108	Strand	-

Start	1	End	328
Name	OJ000302_25.0419.C21.o1.np	Method	AAT/NAP
Start	1	End	325
GI	7446441	Score	97
Exons	1..61, 89..325		
GI Descrip.	probable serine/threonine-specific protein kinase F13M22.21 (EC 2.7.1.-) - Arabidopsis thaliana gi|3236253|gb|AAC23641.1| (AC004684) putative receptor-like protein kinase [Arabidopsis thaliana]		

Seq. No.	54404	Seq. ID	OJ000302_25.0419.C21
Gene No.	114108	Strand	-
Start	1	End	328
Name	OJ000302_25.0419.C21.o1.gs	Method	GENSCAN
Start	23	End	328
GI	none	Score	.43
Exons	23..328		

Seq. No.	54405	Seq. ID	OJ000302_25.0419.C22
Gene No.	114109	Strand	+
Start	1	End	1003
Name	OJ000302_25.0419.C22.o1.np	Method	AAT/NAP
Start	1	End	1003
GI	479357	Score	616
Exons	1..1003		
GI Descrip.	hypothetical protein 612 - maize transposon MuA2 gi|22375|emb|CAA44165| (X62251) ORF [Zea mays]		

Seq. No.	54405	Seq. ID	OJ000302_25.0419.C22
Gene No.	114109	Strand	+
Start	1	End	1003
Name	OJ000302_25.0419.C22.o1.tm	Method	TBLASTX:Maize
Start	50	End	675
GI	none	Score	246
Exons	50..256, 55..255, 146..256, 258..395, 259..399, 359..430, 406..540, 547..675, 554..664		

Seq. No.	54406	Seq. ID	OJ000302_25.0419.C23
Gene No.	114110	Strand	-
Start	773	End	4857
Name	OJ000302_25.0419.C23.o1.gp	Method	AAT/GAP
Start	353	End	3490
GI	13116_2.R1084	Score	2605
Exons	353..886, 1001..1036, 1126..1200, 1588..1641, 1714..1780, 1865..1921, 2009..2122, 2202..2303, 2408..2523, 2688..2771, 2883..2987, 3373..3490		
GI Descrip.	'4803951/gb|AAD29823.1|AC006202_1 1.0e-128 (AC006202) unknown protein [Arabidopsis thaliana]'		

Seq. No.	54406	Seq. ID	OJ000302_25.0419.C23
Gene No.	114110	Strand	-
Start	773	End	4857
Name	OJ000302_25.0419.C23.o1.tm	Method	TBLASTX:Maize
Start	516	End	3719
GI	none	Score	101
Exons	516..545, 660..758, 761..886, 763..885, 764..886, 765..887, 765..887, 991..1038, 995..1048, 996..1037, 998..1039,		

1121..1201, 1124..1201, 1126..1212, 1126..1218, 1588..1650,
1589..1642, 1590..1631, 1674..1778, 1678..1779, 1709..1780,
1714..1779, 1862..1924, 1863..1916, 1864..1926, 1865..1924,
1997..2122, 2008..2124, 2193..2303, 2198..2305, 2201..2302,
2405..2530, 2407..2523, 2422..2541, 2427..2531, 2671..2772,
2679..2774, 2878..2988, 2883..2990, 2897..3010, 3354..3518,
3370..3525, 3373..3519, 3407..3544, 3422..3526, 3601..3717,
3606..3719, 3609..3716

Seq. No.	54406	Seq. ID	OJ000302_25.0419.C23
Gene No.	114110	Strand	-
Start	773	End	4857
Name	OJ000302_25.0419.C23.o1.gs	Method	GENSCAN
Start	773	End	4857
GI	none	Score	.79
Exons	773..886, 1001..1036, 1126..1309, 2009..2122, 2202..2303, 2688..2731, 2883..2987, 3373..3482, 4164..4239, 4400..4857		

Seq. No.	54406	Seq. ID	OJ000302_25.0419.C23
Gene No.	114110	Strand	-
Start	773	End	4857
Name	OJ000302_25.0419.C23.o1.ts	Method	TBLASTX:Soybean
Start	782	End	3707
GI	none	Score	86
Exons	782..886, 783..887, 1126..1203, 1130..1201, 1147..1203, 1588..1650, 1589..1642, 1663..1779, 1714..1779, 1817..1924, 1864..1926, 1864..1926, 1997..2122, 2008..2121, 2199..2303, 2201..2302, 2209..2307, 2405..2527, 2407..2523, 2425..2541, 2433..2525, 2688..2774, 2689..2772, 2878..2982, 2882..2989, 2883..2990, 3376..3507, 3606..3707		

Seq. No.	54406	Seq. ID	OJ000302_25.0419.C23
Gene No.	114110	Strand	-
Start	773	End	4857
Name	OJ000302_25.0419.C23.o1.np	Method	AAT/NAP
Start	789	End	3750
GI	4850384	Score	972
Exons	789..886, 1001..1036, 1126..1200, 1588..1641, 1714..1921, 2009..2122, 2202..2303, 2408..2523, 2688..2771, 2883..2987, 3609..3750		
GI Descrip.	(AC007357) F3F19.3 [Arabidopsis thaliana]		

Seq. No.	54406	Seq. ID	OJ000302_25.0419.C23
Gene No.	114110	Strand	-
Start	773	End	4857
Name	OJ000302_25.0419.C23.o2.tc	Method	TBLASTX:Cress
Start	818	End	1756
GI	none	Score	59
Exons	818..886, 819..887, 996..1037, 998..1039, 1114..1203, 1126..1203, 1588..1650, 1589..1642, 1709..1756, 1714..1755		

Seq. No.	54406	Seq. ID	OJ000302_25.0419.C23
Gene No.	114110	Strand	-
Start	773	End	4857
Name	OJ000302_25.0419.C23.o1.tc	Method	TBLASTX:Cress
Start	2199	End	2518
GI	none	Score	101

Exons	2199..2303, 2201..2302, 2204..2305, 2405..2518, 2407..2511		
Seq. No.	54406	Seq. ID	OJ000302_25.0419.C23
Gene No.	114110	Strand	-
Start	773	End	4857
Name	OJ000302_25.0419.C23.o2.gp	Method	AAT/GAP
Start	3866	End	4732
GI	64260_1.R1084	Score	763
Exons	3866..3992, 4400..4732		
GI Descrip.	'840704/dbj|D50643|D50643 9.0e-12 Rice DNA for 26 kDa globulin, complete cds'		
Seq. No.	54407	Seq. ID	OJ000302_25.0419.C25
Gene No.	114111	Strand	-
Start	775	End	853
Name	OJ000302_25.0419.C25.o1.gs	Method	GENSCAN
Start	775	End	853
GI	none	Score	.53
Exons	775..853		
Seq. No.	54407	Seq. ID	OJ000302_25.0419.C25
Gene No.	114112	Strand	-
Start	2930	End	8871
Name	OJ000302_25.0419.C25.o2.gs	Method	GENSCAN
Start	2930	End	6078
GI	none	Score	.75
Exons	2930..3009, 3979..4047, 4049..4290, 4296..4704, 5946..6078		
Seq. No.	54407	Seq. ID	OJ000302_25.0419.C25
Gene No.	114112	Strand	-
Start	2930	End	8871
Name	OJ000302_25.0419.C25.o1.np	Method	AAT/NAP
Start	3052	End	8871
GI	7444451	Score	3125
Exons	3052..4840, 4945..5768, 7747..8871		
GI Descrip.	probable gag/pol polyprotein - long-staminate rice retrotransposon retrofit gi|2586082|gb|AAB82754.1| (U72725) retrofit [Oryza longistaminata]		
Seq. No.	54407	Seq. ID	OJ000302_25.0419.C25
Gene No.	114112	Strand	-
Start	2930	End	8871
Name	OJ000302_25.0419.C25.o1.tm	Method	TBLASTX:Maize
Start	3228	End	3671
GI	none	Score	44
Exons	3228..3671, 3274..3321, 3379..3468, 3499..3654		
Seq. No.	54407	Seq. ID	OJ000302_25.0419.C25
Gene No.	114112	Strand	-
Start	2930	End	8871
Name	OJ000302_25.0419.C25.o1.tw	Method	TBLASTX:Wheat
Start	3267	End	3809
GI	none	Score	67
Exons	3267..3470, 3462..3665, 3507..3653, 3680..3808, 3711..3809		
Seq. No.	54407	Seq. ID	OJ000302_25.0419.C25
Gene No.	114112	Strand	-

Start	2930	End	8871
Name	OJ000302_25.0419.C25.o1.ts	Method	TBLASTX:Soybean
Start	3471	End	3988
GI	5509260	Score	87
Exons	3471..3665, 3484..3648, 3686..3988, 3690..3839		
GI Descrip.	-		

Seq. No.	54407	Seq. ID	OJ000302_25.0419.C25
Gene No.	114112	Strand	-
Start	2930	End	8871
Name	OJ000302_25.0419.C25.o1.tc	Method	TBLASTX:Cress
Start	3588	End	3850
GI	none	Score	67
Exons	3588..3692, 3597..3665, 3671..3850, 3672..3845		

Seq. No.	54407	Seq. ID	OJ000302_25.0419.C25
Gene No.	114112	Strand	-
Start	2930	End	8871
Name	OJ000302_25.0419.C25.o4.tm	Method	TBLASTX:Maize
Start	3680	End	3937
GI	none	Score	197
Exons	3680..3937		

Seq. No.	54407	Seq. ID	OJ000302_25.0419.C25
Gene No.	114112	Strand	-
Start	2930	End	8871
Name	OJ000302_25.0419.C25.o4.tw	Method	TBLASTX:Wheat
Start	4565	End	4888
GI	none	Score	207
Exons	4565..4888		

Seq. No.	54407	Seq. ID	OJ000302_25.0419.C25
Gene No.	114112	Strand	-
Start	2930	End	8871
Name	OJ000302_25.0419.C25.o2.tc	Method	TBLASTX:Cress
Start	4583	End	5136
GI	none	Score	83
Exons	4583..4888, 4894..5136, 4898..5125		

Seq. No.	54407	Seq. ID	OJ000302_25.0419.C25
Gene No.	114112	Strand	-
Start	2930	End	8871
Name	OJ000302_25.0419.C25.o3.tm	Method	TBLASTX:Maize
Start	4604	End	5031
GI	none	Score	71
Exons	4604..4888, 4894..5031		

Seq. No.	54407	Seq. ID	OJ000302_25.0419.C25
Gene No.	114112	Strand	-
Start	2930	End	8871
Name	OJ000302_25.0419.C25.o3.tw	Method	TBLASTX:Wheat
Start	4936	End	5326
GI	none	Score	139
Exons	4936..5133, 5153..5326		

Seq. No.	54407	Seq. ID	OJ000302_25.0419.C25
Gene No.	114112	Strand	-

Start	2930	End	8871
Name	OJ000302_25.0419.C25.o2.tw	Method	TBLASTX:Wheat
Start	5640	End	7969
GI	none	Score	55
Exons	5640..5765, 5662..5769, 7750..7941, 7752..7847, 7753..7938, 7775..7969		

Seq. No.	54407	Seq. ID	OJ000302_25.0419.C25
Gene No.	114112	Strand	-
Start	2930	End	8871
Name	OJ000302_25.0419.C25.o3.gs	Method	GENSCAN
Start	7670	End	8445
GI	none	Score	.83
Exons	7670..7743, 7812..8445		

Seq. No.	54407	Seq. ID	OJ000302_25.0419.C25
Gene No.	114112	Strand	-
Start	2930	End	8871
Name	OJ000302_25.0419.C25.o5.tm	Method	TBLASTX:Maize
Start	7810	End	8049
GI	none	Score	89
Exons	7810..7932, 7945..8049		

Seq. No.	54407	Seq. ID	OJ000302_25.0419.C25
Gene No.	114112	Strand	-
Start	2930	End	8871
Name	OJ000302_25.0419.C25.o5.tw	Method	TBLASTX:Wheat
Start	8233	End	8535
GI	none	Score	186
Exons	8233..8535		

Seq. No.	54407	Seq. ID	OJ000302_25.0419.C25
Gene No.	114112	Strand	-
Start	2930	End	8871
Name	OJ000302_25.0419.C25.o2.tm	Method	TBLASTX:Maize
Start	8356	End	8793
GI	none	Score	100
Exons	8356..8658, 8384..8614, 8401..8628, 8671..8793, 8696..8782		

Seq. No.	54408	Seq. ID	OJ000302_25.0419.C26
Gene No.	114113	Strand	+
Start	111	End	254
Name	OJ000302_25.0419.C26.o1.gs	Method	GENSCAN
Start	111	End	254
GI	none	Score	.89
Exons	111..254		

Seq. No.	54408	Seq. ID	OJ000302_25.0419.C26
Gene No.	114114	Strand	+
Start	1423	End	2692
Name	OJ000302_25.0419.C26.o2.gs	Method	GENSCAN
Start	1423	End	2692
GI	none	Score	.79
Exons	1423..1470, 2630..2692		

Seq. No.	54408	Seq. ID	OJ000302_25.0419.C26
Gene No.	114115	Strand	+

Start	2876	End	3048
Name	OJ000302_25.0419.C26.o3.gs	Method	GENSCAN
Start	2876	End	3048
GI	none	Score	.97
Exons	2876..2891, 2966..3048		

Seq. No.	54408	Seq. ID	OJ000302_25.0419.C26
Gene No.	114116	Strand	+
Start	5225	End	7537
Name	OJ000302_25.0419.C26.o4.gs	Method	GENSCAN
Start	5225	End	7516
GI	none	Score	1
Exons	5225..7516		

Seq. No.	54408	Seq. ID	OJ000302_25.0419.C26
Gene No.	114116	Strand	+
Start	5225	End	7537
Name	OJ000302_25.0419.C26.o1.np	Method	AAT/NAP
Start	5746	End	7537
GI	4680339	Score	91
Exons	5746..5797, 7202..7537		
GI Descrip.	(AF128457) hypothetical protein [Oryza sativa subsp. indica]		

Seq. No.	54408	Seq. ID	OJ000302_25.0419.C26
Gene No.	114116	Strand	+
Start	5225	End	7537
Name	OJ000302_25.0419.C26.o1.gp	Method	AAT/GAP
Start	5954	End	6335
GI	2431235	Score	599
Exons	5954..6335		

Seq. No.	54409	Seq. ID	OJ000302_25.0419.C27
Gene No.	114117	Strand	+
Start	1325	End	1839
Name	OJ000302_25.0419.C27.o1.gs	Method	GENSCAN
Start	1325	End	1839
GI	none	Score	.69
Exons	1325..1444, 1568..1839		

Seq. No.	54410	Seq. ID	OJ000302_25.0419.C28
Gene No.	114118	Strand	+
Start	51	End	556
Name	OJ000302_25.0419.C28.o1.gs	Method	GENSCAN
Start	51	End	556
GI	none	Score	.63
Exons	51..138, 261..556		

Seq. No.	54411	Seq. ID	OJ000302_26.0419.C15
Gene No.	114119	Strand	-
Start	466	End	794
Name	OJ000302_26.0419.C15.o1.gs	Method	GENSCAN
Start	466	End	794
GI	none	Score	.79
Exons	466..633, 750..794		

Seq. No.	54412	Seq. ID	OJ000302_26.0419.C16
Gene No.	114120	Strand	-

Start	103	End	486
Name	OJ000302_26.0419.C16.o1.tm	Method	TBLASTX:Maize
Start	83	End	486
GI	none	Score	118
Exons	83..235, 103..249, 104..250, 350..481, 351..479, 355..486, 356..481		

Seq. No.	54412	Seq. ID	OJ000302_26.0419.C16
Gene No.	114120	Strand	-
Start	103	End	486
Name	OJ000302_26.0419.C16.o1.gs	Method	GENSCAN
Start	103	End	478
GI	none	Score	.98
Exons	103..246, 356..478		

Seq. No.	54413	Seq. ID	OJ000302_26.0419.C18
Gene No.	114121	Strand	-
Start	68	End	651
Name	OJ000302_26.0419.C18.o1.tm	Method	TBLASTX:Maize
Start	59	End	241
GI	none	Score	202
Exons	59..241, 68..241		

Seq. No.	54413	Seq. ID	OJ000302_26.0419.C18
Gene No.	114121	Strand	-
Start	68	End	651
Name	OJ000302_26.0419.C18.o1.gs	Method	GENSCAN
Start	68	End	651
GI	none	Score	.5
Exons	68..651		

Seq. No.	54413	Seq. ID	OJ000302_26.0419.C18
Gene No.	114121	Strand	-
Start	68	End	651
Name	OJ000302_26.0419.C18.o1.ts	Method	TBLASTX:Soybean
Start	80	End	224
GI	none	Score	92
Exons	80..223, 86..214, 117..224		

Seq. No.	54413	Seq. ID	OJ000302_26.0419.C18
Gene No.	114121	Strand	-
Start	68	End	651
Name	OJ000302_26.0419.C18.o1.tc	Method	TBLASTX:Cress
Start	249	End	496
GI	none	Score	124
Exons	249..491, 251..496		

Seq. No.	54414	Seq. ID	OJ000302_26.0419.C20
Gene No.	114122	Strand	+
Start	49	End	1758
Name	OJ000302_26.0419.C20.o1.gs	Method	GENSCAN
Start	49	End	1758
GI	none	Score	.59
Exons	49..219, 1615..1658, 1664..1758		

Seq. No.	54414	Seq. ID	OJ000302_26.0419.C20
Gene No.	114123	Strand	-

Start	3039	End	5390
Name	OJ000302_26.0419.C20.o1.gp	Method	AAT/GAP
Start	2550	End	5390
GI	none	Score	1287
Exons	2550..3083, 3177..3231, 4708..4841, 5298..5390		

Seq. No.	54414	Seq. ID	OJ000302_26.0419.C20
Gene No.	114123	Strand	-
Start	3039	End	5390
Name	OJ000302_26.0419.C20.o2.gs	Method	GENSCAN
Start	3039	End	4815
GI	none	Score	.5
Exons	3039..3083, 3177..3231, 4708..4815		

Seq. No.	54415	Seq. ID	OJ000302_26.0419.C21
Gene No.	114124	Strand	-
Start	1	End	799
Name	OJ000302_26.0419.C21.o1.gp	Method	AAT/GAP
Start	1	End	442
GI	none	Score	588
Exons	1..42, 166..442		

Seq. No.	54415	Seq. ID	OJ000302_26.0419.C21
Gene No.	114124	Strand	-
Start	1	End	799
Name	OJ000302_26.0419.C21.o1.np	Method	AAT/NAP
Start	1	End	799
GI	7485509	Score	105
Exons	1..39, 718..799		
GI Descrip.	hypothetical protein F15B8.40 - Arabidopsis thaliana gi|4678270|emb|CAB41178.1| (AL049660) protein kinase-like protein [Arabidopsis thaliana]		

Seq. No.	54415	Seq. ID	OJ000302_26.0419.C21
Gene No.	114124	Strand	-
Start	1	End	799
Name	OJ000302_26.0419.C21.o1.gs	Method	GENSCAN
Start	166	End	305
GI	none	Score	.75
Exons	166..305		

Seq. No.	54415	Seq. ID	OJ000302_26.0419.C21
Gene No.	114125	Strand	
Start	744	End	934
Name	OJ000302_26.0419.C21.o1.tm	Method	TBLASTX:Maize
Start	744	End	934
GI	none	Score	254
Exons	744..878, 745..927, 745..879, 746..934		

Seq. No.	54415	Seq. ID	OJ000302_26.0419.C21
Gene No.	114125	Strand	
Start	744	End	934
Name	OJ000302_26.0419.C21.o1.ts	Method	TBLASTX:Soybean
Start	750	End	919
GI	none	Score	97
Exons	750..803, 751..834, 751..834, 794..880, 804..917, 809..919		

Seq. No.	54416	Seq. ID	OJ000302_26.0419.C24
Gene No.	114126	Strand	-
Start	221	End	630
Name	OJ000302_26.0419.C24.o1.gs	Method	GENSCAN
Start	221	End	630
GI	none	Score	.65
Exons	221..380, 400..630		

Seq. No.	54417	Seq. ID	OJ000302_26.0419.C25
Gene No.	114127	Strand	+
Start	4036	End	6554
Name	OJ000302_26.0419.C25.o2.gs	Method	GENSCAN
Start	4036	End	6554
GI	none	Score	.73
Exons	4036..4465, 4521..4656, 6430..6554		

Seq. No.	54417	Seq. ID	OJ000302_26.0419.C25
Gene No.	114128	Strand	-
Start	1	End	4412
Name	OJ000302_26.0419.C25.o1.np	Method	AAT/NAP
Start	1	End	3019
GI	7491372	Score	117
Exons	1..203, 1107..1151, 2966..3019		
GI Descrip.	hypothetical protein SPBC15D4.05 - fission yeast (Schizosaccharomyces pombe) gi|3451463|emb|CAA20480.1| (AL031349) hypothetical protein [Schizosaccharomyces pombe]		

Seq. No.	54417	Seq. ID	OJ000302_26.0419.C25
Gene No.	114128	Strand	-
Start	1	End	4412
Name	OJ000302_26.0419.C25.o2.tm	Method	TBLASTX:Maize
Start	1	End	1268
GI	none	Score	226
Exons	1..201, 3..230, 3..203, 1104..1145, 1105..1143, 1142..1168, 1203..1268, 1211..1243		

Seq. No.	54417	Seq. ID	OJ000302_26.0419.C25
Gene No.	114128	Strand	-
Start	1	End	4412
Name	OJ000302_26.0419.C25.o3.np	Method	AAT/NAP
Start	1	End	2659
GI	3169719	Score	102
Exons	1..37, 2225..2280, 2372..2457, 2543..2659		
GI Descrip.	(AF007109) similar to yeast dcp1 [Arabidopsis thaliana]		

Seq. No.	54417	Seq. ID	OJ000302_26.0419.C25
Gene No.	114128	Strand	-
Start	1	End	4412
Name	OJ000302_26.0419.C25.o1.ts	Method	TBLASTX:Soybean
Start	2	End	203
GI	none	Score	106
Exons	2..190, 2..190, 3..197, 3..203, 142..201		

Seq. No.	54417	Seq. ID	OJ000302_26.0419.C25
Gene No.	114128	Strand	-
Start	1	End	4412
Name	OJ000302_26.0419.C25.o1.gs	Method	GENSCAN

Start	1025	End	3497
GI	none	Score	.8
Exons	1025..1088, 1107..1277, 1801..1986, 1992..2189, 2529..2760, 3437..3497		

Seq. No.	54417	Seq. ID	OJ000302_26.0419.C25
Gene No.	114128	Strand	-
Start	1	End	4412
Name	OJ000302_26.0419.C25.o2.np	Method	AAT/NAP
Start	1794	End	4412
GI	7430667	Score	221
Exons	1794..2270, 4362..4412		
GI Descrip.	cytochrome P450 homolog T12H17.80 - Arabidopsis thaliana gi|2827546|emb|CAA16554.1| (AL021635) cytochrome P450 like protein [Arabidopsis thaliana] gi|7269115|emb|CAB79224.1| (AL161557) cytochrome P450 like protein [Arabidopsis thaliana]		

Seq. No.	54417	Seq. ID	OJ000302_26.0419.C25
Gene No.	114128	Strand	-
Start	1	End	4412
Name	OJ000302_26.0419.C25.o2.ts	Method	TBLASTX:Soybean
Start	1809	End	2218
GI	none	Score	61
Exons	1809..1907, 1910..2032, 2060..2095, 2093..2194, 2099..2218, 2109..2207		

Seq. No.	54417	Seq. ID	OJ000302_26.0419.C25
Gene No.	114128	Strand	-
Start	1	End	4412
Name	OJ000302_26.0419.C25.o1.tc	Method	TBLASTX:Cress
Start	1818	End	2215
GI	none	Score	132
Exons	1818..1886, 1910..2041, 2060..2095, 2099..2215		

Seq. No.	54417	Seq. ID	OJ000302_26.0419.C25
Gene No.	114128	Strand	-
Start	1	End	4412
Name	OJ000302_26.0419.C25.o1.tm	Method	TBLASTX:Maize
Start	1830	End	2218
GI	none	Score	92
Exons	1830..1907, 1833..1907, 1899..1979, 1902..2063, 1910..2050, 2051..2206, 2055..2207, 2069..2218, 2098..2217		

Seq. No.	54418	Seq. ID	OJ000302_26.0419.C26
Gene No.	114129	Strand	+
Start	4022	End	5347
Name	OJ000302_26.0419.C26.o1.np	Method	AAT/NAP
Start	4022	End	5347
GI	7523486	Score	117
Exons	4022..4119, 4159..4329, 5238..5347		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	54418	Seq. ID	OJ000302_26.0419.C26
Gene No.	114130	Strand	-
Start	208	End	5795
Name	OJ000302_26.0419.C26.o1.gs	Method	GENSCAN
Start	208	End	5795

GI	none	Score	.63
Exons	208..381, 1094..1195, 2452..2550, 2611..2694, 2696..2899, 2980..3017, 3309..3384, 3565..3644, 4059..4175, 4410..4574, 5561..5795		

Seq. No.	54419	Seq. ID	OJ000302_26.0419.C29
Gene No.	114131	Strand	+
Start	203	End	452
Name	OJ000302_26.0419.C29.o1.np	Method	AAT/NAP
Start	203	End	452
GI	7228441	Score	82
Exons	203..452		
GI Descrip.	(AP001366) hypothetical protein [Oryza sativa]		

Seq. No.	54419	Seq. ID	OJ000302_26.0419.C29
Gene No.	114132	Strand	+
Start	461	End	638
Name	OJ000302_26.0419.C29.o1.tm	Method	TBLASTX:Maize
Start	456	End	593
GI	none	Score	220
Exons	456..593, 465..584		

Seq. No.	54419	Seq. ID	OJ000302_26.0419.C29
Gene No.	114132	Strand	+
Start	461	End	638
Name	OJ000302_26.0419.C29.o1.gp	Method	AAT/GAP
Start	461	End	638
GI	426627	Score	335
Exons	461..638		

Seq. No.	54420	Seq. ID	OJ000302_26.0419.C30
Gene No.	114133	Strand	+
Start	8	End	522
Name	OJ000302_26.0419.C30.o1.gp	Method	AAT/GAP
Start	8	End	522
GI	none	Score	962
Exons	8..522		

Seq. No.	54420	Seq. ID	OJ000302_26.0419.C30
Gene No.	114134	Strand	+
Start	7834	End	8148
Name	OJ000302_26.0419.C30.o3.gs	Method	GENSCAN
Start	7834	End	8148
GI	none	Score	.96
Exons	7834..8148		

Seq. No.	54420	Seq. ID	OJ000302_26.0419.C30
Gene No.	114135	Strand	-
Start	686	End	1651
Name	OJ000302_26.0419.C30.o1.np	Method	AAT/NAP
Start	680	End	1533
GI	4262142	Score	662
Exons	680..1533		
GI Descrip.	(AC005275) putative alcohol dehydrogenase [Arabidopsis thaliana]		

Seq. No.	54420	Seq. ID	OJ000302_26.0419.C30
Gene No.	114135	Strand	-

Start	686	End	1651
Name	OJ000302_26.0419.C30.o1.gs	Method	GENSCAN
Start	686	End	1651
GI	none	Score	.92
Exons	686..1651		

Seq. No.	54420	Seq. ID	OJ000302_26.0419.C30
Gene No.	114136	Strand	-
Start	2642	End	3901
Name	OJ000302_26.0419.C30.o2.gs	Method	GENSCAN
Start	2642	End	3901
GI	none	Score	.49
Exons	2642..2744, 3496..3712, 3814..3901		

Seq. No.	54420	Seq. ID	OJ000302_26.0419.C30
Gene No.	114137	Strand	-
Start	3814	End	4050
Name	OJ000302_26.0419.C30.o2.gp	Method	AAT/GAP
Start	3814	End	4050
GI	none	Score	381
Exons	3814..4050		

Seq. No.	54420	Seq. ID	OJ000302_26.0419.C30
Gene No.	114138	Strand	-
Start	5136	End	5408
Name	OJ000302_26.0419.C30.o1.tm	Method	TBLASTX:Maize
Start	9	End	462
GI	none	Score	130
Exons	9..155, 73..153, 175..216, 177..239, 177..215, 178..216, 247..306, 264..305, 264..314, 265..306, 296..340, 308..346, 345..437, 346..462, 347..436, 390..461		

Seq. No.	54420	Seq. ID	OJ000302_26.0419.C30
Gene No.	114138	Strand	-
Start	5136	End	5408
Name	OJ000302_26.0419.C30.o1.ts	Method	TBLASTX:Soybean
Start	692	End	1489
GI	none	Score	255
Exons	692..877, 854..1102, 1220..1489		

Seq. No.	54420	Seq. ID	OJ000302_26.0419.C30
Gene No.	114138	Strand	-
Start	5136	End	5408
Name	OJ000302_26.0419.C30.o2.tm	Method	TBLASTX:Maize
Start	722	End	1531
GI	none	Score	155
Exons	722..847, 917..1102, 1217..1333, 1331..1531		

Seq. No.	54420	Seq. ID	OJ000302_26.0419.C30
Gene No.	114138	Strand	-
Start	5136	End	5408
Name	OJ000302_26.0419.C30.o1.tw	Method	TBLASTX:Wheat
Start	1217	End	1510
GI	none	Score	57
Exons	1217..1333, 1268..1297, 1328..1510, 1358..1417, 1383..1508		

Seq. No.	54420	Seq. ID	OJ000302_26.0419.C30

Gene No.	114138	Strand	-
Start	5136	End	5408
Name	OJ000302_26.0419.C30.o1.tc	Method	TBLASTX:Cress
Start	1241	End	1501
GI	none	Score	230
Exons	1241..1501		

Seq. No.	54420	Seq. ID	OJ000302_26.0419.C30
Gene No.	114138	Strand	-
Start	5136	End	5408
Name	OJ000302_26.0419.C30.o3.tm	Method	TBLASTX:Maize
Start	3489	End	3666
GI	none	Score	219
Exons	3489..3665, 3493..3666, 3496..3666		

Seq. No.	54420	Seq. ID	OJ000302_26.0419.C30
Gene No.	114138	Strand	-
Start	5136	End	5408
Name	OJ000302_26.0419.C30.o3.gp	Method	AAT/GAP
Start	5136	End	5408
GI	2798171	Score	473
Exons	5136..5408		

Seq. No.	54421	Seq. ID	OJ000302_26.0419.C32
Gene No.	114139	Strand	-
Start	1	End	2689
Name	OJ000302_26.0419.C32.o1.np	Method	AAT/NAP
Start	1	End	2689
GI	7485120	Score	418
Exons	1..294, 649..889, 1129..1229, 1326..1458, 1705..1776, 1861..1929, 2021..2404, 2531..2689		
GI Descrip.	hypothetical protein - Arabidopsis thaliana gi|2244865|emb|CAB10287.1| (Z97337) hypothetical protein [Arabidopsis thaliana] gi|7268254|emb|CAB78550.1| (AL161540) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	54421	Seq. ID	OJ000302_26.0419.C32
Gene No.	114139	Strand	-
Start	1	End	2689
Name	OJ000302_26.0419.C32.o3.tm	Method	TBLASTX:Maize
Start	7	End	153
GI	none	Score	170
Exons	7..153, 8..148		

Seq. No.	54421	Seq. ID	OJ000302_26.0419.C32
Gene No.	114139	Strand	-
Start	1	End	2689
Name	OJ000302_26.0419.C32.o1.gs	Method	GENSCAN
Start	61	End	2404
GI	none	Score	.83
Exons	61..313, 677..859, 1132..1212, 1330..1458, 1861..1929, 2021..2404		

Seq. No.	54421	Seq. ID	OJ000302_26.0419.C32
Gene No.	114139	Strand	-
Start	1	End	2689
Name	OJ000302_26.0419.C32.o4.tm	Method	TBLASTX:Maize

Start	154	End	1201
GI	none	Score	145
Exons	154..210, 158..316, 185..316, 268..324, 678..791, 678..860, 685..876, 761..880, 1127..1201		

Seq. No.	54421	Seq. ID	OJ000302_26.0419.C32
Gene No.	114139	Strand	-
Start	1	End	2689
Name	OJ000302_26.0419.C32.o1.ts	Method	TBLASTX:Soybean
Start	1712	End	2206
GI	none	Score	64
Exons	1712..1771, 1723..1761, 1762..1779, 1861..1929, 1862..1930, 2018..2206, 2019..2084		

Seq. No.	54421	Seq. ID	OJ000302_26.0419.C32
Gene No.	114139	Strand	-
Start	1	End	2689
Name	OJ000302_26.0419.C32.o2.tm	Method	TBLASTX:Maize
Start	1718	End	2078
GI	none	Score	71
Exons	1718..1777, 1723..1779, 1861..1929, 1863..1934, 2018..2077, 2019..2078		

Seq. No.	54421	Seq. ID	OJ000302_26.0419.C32
Gene No.	114139	Strand	-
Start	1	End	2689
Name	OJ000302_26.0419.C32.o1.tc	Method	TBLASTX:Cress
Start	1723	End	2134
GI	none	Score	42
Exons	1723..1779, 1739..1777, 1861..1929, 1865..1930, 2018..2134		

Seq. No.	54421	Seq. ID	OJ000302_26.0419.C32
Gene No.	114139	Strand	-
Start	1	End	2689
Name	OJ000302_26.0419.C32.o1.tm	Method	TBLASTX:Maize
Start	2079	End	2364
GI	none	Score	322
Exons	2079..2360, 2080..2364, 2081..2362, 2133..2363		

Seq. No.	54422	Seq. ID	OJ000302_26.0419.C33
Gene No.	114140	Strand	-
Start	162	End	506
Name	OJ000302_26.0419.C33.o1.gp	Method	AAT/GAP
Start	162	End	506
GI	4714889	Score	642
Exons	162..506		

Seq. No.	54422	Seq. ID	OJ000302_26.0419.C33
Gene No.	114141	Strand	-
Start	416	End	1967
Name	OJ000302_26.0419.C33.o1.gs	Method	GENSCAN
Start	416	End	1967
GI	none	Score	.67
Exons	416..502, 1815..1967		

Seq. No.	54423	Seq. ID	OJ000302_26.0419.C34
Gene No.	114142	Strand	-

Start	921	End	1199
Name	OJ000302_26.0419.C34.o1.gs	Method	GENSCAN
Start	921	End	1199
GI	none	Score	.84
Exons	921..1199		

Seq. No.	54424	Seq. ID	OJ000302_26.0419.C35
Gene No.	114143	Strand	+
Start	55	End	287
Name	OJ000302_26.0419.C35.o1.gs	Method	GENSCAN
Start	55	End	287
GI	none	Score	.42
Exons	55..287		

Seq. No.	54424	Seq. ID	OJ000302_26.0419.C35
Gene No.	114144	Strand	+
Start	2367	End	2768
Name	OJ000302_26.0419.C35.o1.gp	Method	AAT/GAP
Start	2367	End	2768
GI	25165_1.R1084	Score	630
Exons	2367..2768		
GI Descrip.	'4530126/gb|AAD21872.1| 4.0e-15 (AF078082) receptor-like protein kinase homolog RK20-1 [Phaseolus vulgaris]'		

Seq. No.	54424	Seq. ID	OJ000302_26.0419.C35
Gene No.	114145	Strand	+
Start	4406	End	4843
Name	OJ000302_26.0419.C35.o3.gp	Method	AAT/GAP
Start	4406	End	4843
GI	none	Score	605
Exons	4406..4450, 4533..4843		

Seq. No.	54424	Seq. ID	OJ000302_26.0419.C35
Gene No.	114146	Strand	-
Start	868	End	4691
Name	OJ000302_26.0419.C35.o2.gs	Method	GENSCAN
Start	868	End	4691
GI	none	Score	.78
Exons	868..1033, 2398..2604, 2648..2845, 2850..3013, 3108..3184, 4544..4691		

Seq. No.	54424	Seq. ID	OJ000302_26.0419.C35
Gene No.	114146	Strand	-
Start	868	End	4691
Name	OJ000302_26.0419.C35.o2.gp	Method	AAT/GAP
Start	3988	End	4055
GI	25165_1.R1084	Score	103
Exons	3988..4055		
GI Descrip.	'4530126/gb|AAD21872.1| 4.0e-15 (AF078082) receptor-like protein kinase homolog RK20-1 [Phaseolus vulgaris]'		

Seq. No.	54425	Seq. ID	OJ000302_26.0419.C36
Gene No.	114147	Strand	-
Start	93	End	1798
Name	OJ000302_26.0419.C36.o1.gs	Method	GENSCAN
Start	93	End	1798
GI	none	Score	.53

Exons	93..233, 416..592, 1244..1314, 1792..1798		
Seq. No.	54426	Seq. ID	OJ000302_26.0419.C37
Gene No.	114148	Strand	-
Start	743	End	3716
Name	OJ000302_26.0419.C37.o1.gs	Method	GENSCAN
Start	743	End	3716
GI	none	Score	.46
Exons	743..777, 902..1183, 1858..2164, 2199..2777, 2983..3168, 3328..3504, 3527..3716		
Seq. No.	54427	Seq. ID	OJ000302_26.0419.C38
Gene No.	114149	Strand	-
Start	33	End	241
Name	OJ000302_26.0419.C38.o1.gs	Method	GENSCAN
Start	33	End	241
GI	none	Score	.73
Exons	33..241		
Seq. No.	54428	Seq. ID	OJ000302_26.0419.C40
Gene No.	114150	Strand	-
Start	749	End	1961
Name	OJ000302_26.0419.C40.o1.tw	Method	TBLASTX:Wheat
Start	48	End	1198
GI	none	Score	55
Exons	48..134, 159..311, 160..288, 773..1198, 798..1007, 827..1012		
Seq. No.	54428	Seq. ID	OJ000302_26.0419.C40
Gene No.	114150	Strand	-
Start	749	End	1961
Name	OJ000302_26.0419.C40.o1.np	Method	AAT/NAP
Start	749	End	1961
GI	5911167	Score	1556
Exons	749..1961		
GI Descrip.	(AF136221) putative transposase protein [Zea mays]		
Seq. No.	54428	Seq. ID	OJ000302_26.0419.C40
Gene No.	114150	Strand	-
Start	749	End	1961
Name	OJ000302_26.0419.C40.o1.tm	Method	TBLASTX:Maize
Start	839	End	1324
GI	none	Score	161
Exons	839..1324, 840..1259		
Seq. No.	54428	Seq. ID	OJ000302_26.0419.C40
Gene No.	114150	Strand	-
Start	749	End	1961
Name	OJ000302_26.0419.C40.o1.ts	Method	TBLASTX:Soybean
Start	887	End	1291
GI	none	Score	118
Exons	887..1099, 888..1019, 1136..1291		
Seq. No.	54428	Seq. ID	OJ000302_26.0419.C40
Gene No.	114150	Strand	-
Start	749	End	1961
Name	OJ000302_26.0419.C40.o2.tm	Method	TBLASTX:Maize
Start	1349	End	1684

GI	none	Score	103
Exons	1349..1684, 1359..1523, 1382..1525		

Seq. No.	54429	Seq. ID	OJ000302_26.0419.C41
Gene No.	114151	Strand	+
Start	8539	End	8644
Name	OJ000302_26.0419.C41.o2.gp	Method	AAT/GAP
Start	8539	End	8644
GI	5816518	Score	157
Exons	8539..8644		
GI Descrip.	4521193/dbj|AB013450.1|AB013450 3.0e-40 Oryza sativa DNA, similar sequence to Pib gene		

Seq. No.	54429	Seq. ID	OJ000302_26.0419.C41
Gene No.	114152	Strand	-
Start	1	End	2136
Name	OJ000302_26.0419.C41.o1.np	Method	AAT/NAP
Start	1	End	2136
GI	5911167	Score	878
Exons	1..744, 2095..2136		
GI Descrip.	(AF136221) putative transposase protein [Zea mays]		

Seq. No.	54429	Seq. ID	OJ000302_26.0419.C41
Gene No.	114153	Strand	-
Start	4678	End	6874
Name	OJ000302_26.0419.C41.o2.gs	Method	GENSCAN
Start	4678	End	6874
GI	none	Score	.93
Exons	4678..5295, 5411..5476, 6761..6874		

Seq. No.	54429	Seq. ID	OJ000302_26.0419.C41
Gene No.	114154	Strand	-
Start	10253	End	13286
Name	OJ000302_26.0419.C41.o1.tm	Method	TBLASTX:Maize
Start	2	End	471
GI	none	Score	108
Exons	2..163, 9..167, 176..232, 272..358, 403..471		

Seq. No.	54429	Seq. ID	OJ000302_26.0419.C41
Gene No.	114154	Strand	-
Start	10253	End	13286
Name	OJ000302_26.0419.C41.o1.tc	Method	TBLASTX:Cress
Start	8	End	365
GI	none	Score	61
Exons	8..166, 41..172, 173..358, 204..365		

Seq. No.	54429	Seq. ID	OJ000302_26.0419.C41
Gene No.	114154	Strand	-
Start	10253	End	13286
Name	OJ000302_26.0419.C41.o1.tw	Method	TBLASTX:Wheat
Start	245	End	681
GI	none	Score	146
Exons	245..364, 406..681		

Seq. No.	54429	Seq. ID	OJ000302_26.0419.C41
Gene No.	114154	Strand	-
Start	10253	End	13286

Name	OJ000302_26.0419.C41.o1.ts	Method	TBLASTX:Soybean
Start	406	End	699
GI	none	Score	204
Exons	406..699		

Seq. No.	54429	Seq. ID	OJ000302_26.0419.C41
Gene No.	114154	Strand	-
Start	10253	End	13286
Name	OJ000302_26.0419.C41.o3.gs	Method	GENSCAN
Start	10253	End	13158
GI	none	Score	.8
Exons	10253..10650, 10775..11137, 11192..11711, 12919..13158		

Seq. No.	54429	Seq. ID	OJ000302_26.0419.C41
Gene No.	114154	Strand	-
Start	10253	End	13286
Name	OJ000302_26.0419.C41.o2.np	Method	AAT/NAP
Start	10764	End	13286
GI	7106512	Score	1939
Exons	10764..11137, 11192..11701, 11823..12097, 12139..12368, 12422..13286		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	54430	Seq. ID	OJ000302_26.0419.C42
Gene No.	114155	Strand	+
Start	119	End	227
Name	OJ000302_26.0419.C42.o1.gp	Method	AAT/GAP
Start	119	End	227
GI	5816518	Score	151
Exons	119..227		
GI Descrip.	4521193/dbj|AB013450.1|AB013450 3.0e-40 Oryza sativa DNA, similar sequence to Pib gene		

Seq. No.	54430	Seq. ID	OJ000302_26.0419.C42
Gene No.	114156	Strand	+
Start	343	End	3597
Name	OJ000302_26.0419.C42.o1.gs	Method	GENSCAN
Start	343	End	3597
GI	none	Score	.5
Exons	343..827, 1146..1210, 2401..2597, 2609..2748, 2871..2945, 3544..3597		

Seq. No.	54430	Seq. ID	OJ000302_26.0419.C42
Gene No.	114156	Strand	+
Start	343	End	3597
Name	OJ000302_26.0419.C42.o1.np	Method	AAT/NAP
Start	466	End	3486
GI	7106522	Score	144
Exons	466..800, 2680..2736, 3393..3486		
GI Descrip.	(AP001278) Similar to Arabidopsis thaliana chromosome II BAC F14M4 genomic sequence, unknown protein. (AC004411) [Oryza sativa]		

Seq. No.	54430	Seq. ID	OJ000302_26.0419.C42
Gene No.	114157	Strand	-
Start	2464	End	3327

Name	OJ000302_26.0419.C42.o1.ts	Method	TBLASTX:Soybean
Start	485	End	800
GI	none	Score	155
Exons	485..643, 504..644, 708..800		

Seq. No.	54430	Seq. ID	OJ000302_26.0419.C42
Gene No.	114157	Strand	-
Start	2464	End	3327
Name	OJ000302_26.0419.C42.o2.tm	Method	TBLASTX:Maize
Start	485	End	800
GI	none	Score	164
Exons	485..643, 504..644, 711..800		

Seq. No.	54430	Seq. ID	OJ000302_26.0419.C42
Gene No.	114157	Strand	-
Start	2464	End	3327
Name	OJ000302_26.0419.C42.o2.np	Method	AAT/NAP
Start	2464	End	3327
GI	6561943	Score	327
Exons	2464..2488, 2603..2696, 2836..2933, 3038..3118, 3213..3327		
GI Descrip.	(AL132964) putative protein [Arabidopsis thaliana]		

Seq. No.	54430	Seq. ID	OJ000302_26.0419.C42
Gene No.	114157	Strand	-
Start	2464	End	3327
Name	OJ000302_26.0419.C42.o1.tm	Method	TBLASTX:Maize
Start	2609	End	3319
GI	none	Score	93
Exons	2609..2695, 2613..2699, 2755..2934, 2782..2934, 2838..2936, 3030..3092, 3037..3117, 3038..3130, 3039..3131, 3204..3308, 3204..3242, 3217..3318, 3221..3319		

Seq. No.	54431	Seq. ID	OJ000302_26.0419.C43
Gene No.	114158	Strand	+
Start	5672	End	6809
Name	OJ000302_26.0419.C43.o2.gs	Method	GENSCAN
Start	5672	End	6809
GI	none	Score	.93
Exons	5672..5766, 5834..5993, 6046..6153, 6708..6809		

Seq. No.	54431	Seq. ID	OJ000302_26.0419.C43
Gene No.	114159	Strand	-
Start	2196	End	2610
Name	OJ000302_26.0419.C43.o1.gp	Method	AAT/GAP
Start	2196	End	2610
GI	48271_1.R1084	Score	795
Exons	2196..2610		
GI Descrip.	'4521193/dbj|AB013450.1|AB013450 3.0e-40 Oryza sativa DNA, similar sequence to Pib gene'		

Seq. No.	54431	Seq. ID	OJ000302_26.0419.C43
Gene No.	114160	Strand	-
Start	2586	End	6094
Name	OJ000302_26.0419.C43.o1.np	Method	AAT/NAP
Start	2586	End	6094
GI	7546729	Score	289
Exons	2586..2947, 6038..6094		

GI Descrip. (AF118115) MFP1 attachment factor 1 [Glycine max]

Seq. No.	54431	Seq. ID	OJ000302_26.0419.C43
Gene No.	114160	Strand	-
Start	2586	End	6094
Name	OJ000302_26.0419.C43.o2.gp	Method	AAT/GAP
Start	2780	End	3112
GI	5004057	Score	614
Exons	2780..3112		

Seq. No.	54432	Seq. ID	OJ000302_26.0419.C44
Gene No.	114161	Strand	+
Start	2027	End	8306
Name	OJ000302_26.0419.C44.o1.np	Method	AAT/NAP
Start	2027	End	6420
GI	6721562	Score	335
Exons	2027..2500, 3279..3349, 3904..4280, 6395..6420		

GI Descrip. (AP001073) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa] gi|6815087|dbj|BAA90373.1| (AP001081) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa]

Seq. No.	54432	Seq. ID	OJ000302_26.0419.C44
Gene No.	114161	Strand	+
Start	2027	End	8306
Name	OJ000302_26.0419.C44.o2.gs	Method	GENSCAN
Start	3841	End	6706
GI	none	Score	.56
Exons	3841..3924, 4038..4181, 4336..4407, 5571..5606, 5675..5788, 6644..6706		

Seq. No.	54432	Seq. ID	OJ000302_26.0419.C44
Gene No.	114161	Strand	+
Start	2027	End	8306
Name	OJ000302_26.0419.C44.o2.np	Method	AAT/NAP
Start	5159	End	8248
GI	6815109	Score	138
Exons	5159..5411, 7994..8248		

GI Descrip. (AP001081) hypothetical protein [Oryza sativa]

Seq. No.	54432	Seq. ID	OJ000302_26.0419.C44
Gene No.	114161	Strand	+
Start	2027	End	8306
Name	OJ000302_26.0419.C44.o3.gs	Method	GENSCAN
Start	7917	End	8306
GI	none	Score	.83
Exons	7917..8306		

Seq. No.	54432	Seq. ID	OJ000302_26.0419.C44
Gene No.	114162	Strand	-
Start	6731	End	8873
Name	OJ000302_26.0419.C44.o3.np	Method	AAT/NAP
Start	6731	End	8873
GI	1362015	Score	104
Exons	6731..6755, 8113..8300, 8760..8873		

GI Descrip. zinc finger protein 1 - Arabidopsis thaliana

gi|2129779|pir||S71240 zinc finger protein 1 - Arabidopsis thaliana gi|790673 (L39644) zinc finger protein [Arabidopsis thaliana] gi|1297186 (U53501) zinc finger protein 1 [Arabidopsis thaliana] gi|6503285|gb|AAF14661.1|AC011713_9 (AC011713) Identical to gi|S55881 zinc finger protein 1 from Arabidopsis thaliana.

Seq. No.	54433	Seq. ID	OJ000302_26.0419.C45
Gene No.	114163	Strand	+
Start	825	End	1064
Name	OJ000302_26.0419.C45.o1.gs	Method	GENSCAN
Start	825	End	1064
GI	none	Score	.85
Exons	825..920, 963..1064		

Seq. No.	54433	Seq. ID	OJ000302_26.0419.C45
Gene No.	114164	Strand	-
Start	1748	End	3676
Name	OJ000302_26.0419.C45.o1.np	Method	AAT/NAP
Start	1556	End	3301
GI	82523	Score	157
Exons	1556..1615, 3043..3301		
GI Descrip.	hypothetical 29K protein (trnH-trnV intergenic region) - rice chloroplast gi|12034|emb|CAA33940| (X15901) ORF249 [Oryza sativa] gi|12068|emb|CAA33921| (X15901) ORF249 [Oryza sativa] gi|226655|prf||1603356CE ORF 249 [Oryza sativa]		

Seq. No.	54433	Seq. ID	OJ000302_26.0419.C45
Gene No.	114164	Strand	-
Start	1748	End	3676
Name	OJ000302_26.0419.C45.o2.gs	Method	GENSCAN
Start	1748	End	3676
GI	none	Score	.69
Exons	1748..1883, 3594..3676		

Seq. No.	54434	Seq. ID	OJ000302_26.0419.C46
Gene No.	114165	Strand	-
Start	167	End	2035
Name	OJ000302_26.0419.C46.o1.gs	Method	GENSCAN
Start	167	End	2035
GI	none	Score	.48
Exons	167..319, 740..908, 1897..2035		

Seq. No.	54435	Seq. ID	OJ000302_26.0419.C47
Gene No.	114166	Strand	+
Start	57	End	4170
Name	OJ000302_26.0419.C47.o1.gs	Method	GENSCAN
Start	57	End	4170
GI	none	Score	.74
Exons	57..72, 509..643, 2290..2448, 2557..2707, 3487..3632, 3722..4170		

Seq. No.	54435	Seq. ID	OJ000302_26.0419.C47
Gene No.	114167	Strand	+
Start	4655	End	6567
Name	OJ000302_26.0419.C47.o1.gp	Method	AAT/GAP
Start	4517	End	4959
GI	uC-osflcyp081g08b1	Score	843

Exons	4517..4959		
GI Descrip.	'2642446 4.0e-24 (AC002391) similar to auxin-responsive GH3 protein [Arabidopsis thaliana]'		

Seq. No.	54435	Seq. ID	OJ000302_26.0419.C47
Gene No.	114167	Strand	+
Start	4655	End	6567
Name	OJ000302_26.0419.C47.o2.gs	Method	GENSCAN
Start	4655	End	6567
GI	none	Score	.57
Exons	4655..5097, 5138..6029, 6052..6567		

Seq. No.	54435	Seq. ID	OJ000302_26.0419.C47
Gene No.	114167	Strand	+
Start	4655	End	6567
Name	OJ000302_26.0419.C47.o1.np	Method	AAT/NAP
Start	4676	End	6561
GI	4887010	Score	2221
Exons	4676..5097, 5192..6561		
GI Descrip.	(AF123503) Nt-gh3 deduced protein [Nicotiana tabacum]		

Seq. No.	54435	Seq. ID	OJ000302_26.0419.C47
Gene No.	114167	Strand	+
Start	4655	End	6567
Name	OJ000302_26.0419.C47.o2.gp	Method	AAT/GAP
Start	5283	End	5788
GI	44096_1.R1084	Score	942
Exons	5283..5788		
GI Descrip.	'4887010/gb|AAD32141.1|AF123503_1 1.0e-54 (AF123503) Nt-gh3 deduced protein [Nicotiana tabacum]'		

Seq. No.	54435	Seq. ID	OJ000302_26.0419.C47
Gene No.	114168	Strand	+
Start	13907	End	14188
Name	OJ000302_26.0419.C47.o6.gp	Method	AAT/GAP
Start	13907	End	14188
GI	23880_2.R1084	Score	205
Exons	13907..14010, 14117..14188		
GI Descrip.	'4176420/dbj|BAA37167| 2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	54435	Seq. ID	OJ000302_26.0419.C47
Gene No.	114169	Strand	+
Start	15918	End	21246
Name	OJ000302_26.0419.C47.o5.gs	Method	GENSCAN
Start	15918	End	21019
GI	none	Score	.5
Exons	15918..16986, 17215..17339, 17772..18352, 18989..19061, 19244..19560, 19692..19812, 20978..21019		

Seq. No.	54435	Seq. ID	OJ000302_26.0419.C47
Gene No.	114169	Strand	+
Start	15918	End	21246
Name	OJ000302_26.0419.C47.o3.np	Method	AAT/NAP
Start	19313	End	21246
GI	6522926	Score	196
Exons	19313..19560, 19692..19812, 21174..21246		

GI Descrip. (AL132978) putative protein [Arabidopsis thaliana]

Seq. No.	54435	Seq. ID	OJ000302_26.0419.C47
Gene No.	114169	Strand	+
Start	15918	End	21246
Name	OJ000302_26.0419.C47.o8.gp	Method	AAT/GAP
Start	19429	End	20063
GI	none	Score	463
Exons	19429..19569, 19699..19813, 20040..20063		

Seq. No.	54435	Seq. ID	OJ000302_26.0419.C47
Gene No.	114170	Strand	-
Start	5971	End	6297
Name	OJ000302_26.0419.C47.o3.gp	Method	AAT/GAP
Start	5971	End	6297
GI	23273_1.R1084	Score	589
Exons	5971..6297		
GI Descrip.	'4887010/gb|AAD32141.1|AF123503_1 1.0e-30 (AF123503) Nt-gh3 deduced protein [Nicotiana tabacum]'		

Seq. No.	54435	Seq. ID	OJ000302_26.0419.C47
Gene No.	114171	Strand	-
Start	6387	End	6872
Name	OJ000302_26.0419.C47.o4.gp	Method	AAT/GAP
Start	6387	End	6872
GI	46644_1.R1084	Score	934
Exons	6387..6872		
GI Descrip.	'3650037 1.0e-22 (AC005396) auxin-responsive GH3-like protein [Arabidopsis thaliana]'		

Seq. No.	54435	Seq. ID	OJ000302_26.0419.C47
Gene No.	114172	Strand	-
Start	7101	End	10594
Name	OJ000302_26.0419.C47.o3.gs	Method	GENSCAN
Start	7101	End	10594
GI	none	Score	.61
Exons	7101..7244, 7596..7876, 8038..8330, 8435..8593, 8690..9052, 9418..9696, 10521..10594		

Seq. No.	54435	Seq. ID	OJ000302_26.0419.C47
Gene No.	114173	Strand	-
Start	11856	End	14040
Name	OJ000302_26.0419.C47.o5.gp	Method	AAT/GAP
Start	11539	End	11798
GI	LIB3431-010-P1-N1-F11	Score	453
Exons	11539..11798		
GI Descrip.	'287403/dbj|D10838|RICSBE1 1.0e-111 Rice gene for starch branching enzyme'		

Seq. No.	54435	Seq. ID	OJ000302_26.0419.C47
Gene No.	114173	Strand	-
Start	11856	End	14040
Name	OJ000302_26.0419.C47.o4.gs	Method	GENSCAN
Start	11856	End	14040
GI	none	Score	.51
Exons	11856..11956, 13755..14040		

Seq. No.	54435	Seq. ID	OJ000302_26.0419.C47
Gene No.	114174	Strand	-
Start	18341	End	18636
Name	OJ000302_26.0419.C47.o4.tm	Method	TBLASTX:Maize
Start	4649	End	5052
GI	none	Score	37
Exons	4649..4684, 4649..4675, 4669..4707, 4673..4708, 4705..4842, 4706..4840, 4721..4912, 4837..5037, 4838..5050, 4885..5052, 5001..5042, 5024..5050		

Seq. No.	54435	Seq. ID	OJ000302_26.0419.C47
Gene No.	114174	Strand	-
Start	18341	End	18636
Name	OJ000302_26.0419.C47.o2.tc	Method	TBLASTX:Cress
Start	4673	End	5291
GI	none	Score	467
Exons	4673..5098, 4729..5103, 5184..5291, 5195..5290		

Seq. No.	54435	Seq. ID	OJ000302_26.0419.C47
Gene No.	114174	Strand	-
Start	18341	End	18636
Name	OJ000302_26.0419.C47.o2.ts	Method	TBLASTX:Soybean
Start	4688	End	5357
GI	none	Score	491
Exons	4688..5098, 4724..4963, 4741..5103, 5027..5104, 5184..5357, 5194..5238, 5195..5356		

Seq. No.	54435	Seq. ID	OJ000302_26.0419.C47
Gene No.	114174	Strand	-
Start	18341	End	18636
Name	OJ000302_26.0419.C47.o2.tw	Method	TBLASTX:Wheat
Start	5216	End	5348
GI	none	Score	223
Exons	5216..5347, 5220..5348		

Seq. No.	54435	Seq. ID	OJ000302_26.0419.C47
Gene No.	114174	Strand	-
Start	18341	End	18636
Name	OJ000302_26.0419.C47.o2.tm	Method	TBLASTX:Maize
Start	5217	End	5615
GI	none	Score	378
Exons	5217..5450, 5222..5467, 5445..5615, 5447..5611		

Seq. No.	54435	Seq. ID	OJ000302_26.0419.C47
Gene No.	114174	Strand	-
Start	18341	End	18636
Name	OJ000302_26.0419.C47.o1.ts	Method	TBLASTX:Soybean
Start	5357	End	6558
GI	none	Score	300
Exons	5357..5560, 5364..5642, 5628..5753, 5630..5752, 5739..5888, 5747..5893, 5913..6014, 5925..6014, 6016..6249, 6018..6089, 6171..6248, 6277..6558, 6291..6551		

Seq. No.	54435	Seq. ID	OJ000302_26.0419.C47
Gene No.	114174	Strand	-
Start	18341	End	18636
Name	OJ000302_26.0419.C47.o1.tc	Method	TBLASTX:Cress

Start	5364	End	6558
GI	none	Score	218
Exons	5364..5534, 5366..5503, 5645..5881, 5646..5930, 5910..6014, 5916..6014, 6016..6249, 6021..6242, 6273..6557, 6277..6558		

Seq. No.	54435	Seq. ID	OJ000302_26.0419.C47
Gene No.	114174	Strand	-
Start	18341	End	18636
Name	OJ000302_26.0419.C47.o1.tw	Method	TBLASTX:Wheat
Start	5657	End	6014
GI	none	Score	301
Exons	5657..5908, 5658..5909, 5922..6014, 5972..6013		

Seq. No.	54435	Seq. ID	OJ000302_26.0419.C47
Gene No.	114174	Strand	-
Start	18341	End	18636
Name	OJ000302_26.0419.C47.o6.tm	Method	TBLASTX:Maize
Start	5804	End	8705
GI	none	Score	50
Exons	5804..5827, 5804..5887, 5805..5888, 5857..5889, 5898..6014, 5898..6011, 6015..6053, 6015..6053, 6016..6054, 8549..8602, 8616..8705		

Seq. No.	54435	Seq. ID	OJ000302_26.0419.C47
Gene No.	114174	Strand	-
Start	18341	End	18636
Name	OJ000302_26.0419.C47.o3.tm	Method	TBLASTX:Maize
Start	6055	End	6558
GI	none	Score	254
Exons	6055..6264, 6060..6284, 6256..6351, 6256..6342, 6291..6353, 6355..6558, 6357..6548		

Seq. No.	54435	Seq. ID	OJ000302_26.0419.C47
Gene No.	114174	Strand	-
Start	18341	End	18636
Name	OJ000302_26.0419.C47.o5.tm	Method	TBLASTX:Maize
Start	15900	End	16259
GI	none	Score	358
Exons	15900..16259, 15907..16254, 15908..16258		

Seq. No.	54435	Seq. ID	OJ000302_26.0419.C47
Gene No.	114174	Strand	-
Start	18341	End	18636
Name	OJ000302_26.0419.C47.o1.tm	Method	TBLASTX:Maize
Start	16308	End	16874
GI	none	Score	635
Exons	16308..16811, 16312..16809, 16812..16874, 16812..16874		

Seq. No.	54435	Seq. ID	OJ000302_26.0419.C47
Gene No.	114174	Strand	-
Start	18341	End	18636
Name	OJ000302_26.0419.C47.o3.tc	Method	TBLASTX:Cress
Start	16427	End	17891
GI	none	Score	218
Exons	16427..16687, 16428..16709, 16740..17024, 16749..16967, 16805..16987, 17172..17330, 17769..17891		

Seq. No.	54435	Seq. ID	OJ000302_26.0419.C47
Gene No.	114174	Strand	-
Start	18341	End	18636
Name	OJ000302_26.0419.C47.o3.ts	Method	TBLASTX:Soybean
Start	16443	End	17891
GI	none	Score	182
Exons	16443..16709, 16740..16988, 16764..16964, 16805..16987, 17172..17294, 17730..17885, 17769..17891, 17774..17887		

Seq. No.	54435	Seq. ID	OJ000302_26.0419.C47
Gene No.	114174	Strand	-
Start	18341	End	18636
Name	OJ000302_26.0419.C47.o7.tm	Method	TBLASTX:Maize
Start	17141	End	17326
GI	none	Score	119
Exons	17141..17317, 17163..17318, 17170..17319, 17171..17326, 17179..17319		

Seq. No.	54435	Seq. ID	OJ000302_26.0419.C47
Gene No.	114174	Strand	-
Start	18341	End	18636
Name	OJ000302_26.0419.C47.o8.tm	Method	TBLASTX:Maize
Start	17760	End	17914
GI	none	Score	185
Exons	17760..17903, 17768..17914, 17770..17913, 17771..17914		

Seq. No.	54435	Seq. ID	OJ000302_26.0419.C47
Gene No.	114174	Strand	-
Start	18341	End	18636
Name	OJ000302_26.0419.C47.o7.gp	Method	AAT/GAP
Start	18341	End	18636
GI	3106795	Score	579
Exons	18341..18636		

Seq. No.	54436	Seq. ID	OJ000302_26.0419.C48
Gene No.	114175	Strand	+
Start	1	End	1718
Name	OJ000302_26.0419.C48.o1.np	Method	AAT/NAP
Start	1	End	1718
GI	6522926	Score	295
Exons	1..34, 191..285, 363..462, 582..654, 1650..1718		
GI Descrip.	(AL132978) putative protein [Arabidopsis thaliana]		

Seq. No.	54436	Seq. ID	OJ000302_26.0419.C48
Gene No.	114176	Strand	+
Start	1668	End	1718
Name	OJ000302_26.0419.C48.o1.tm	Method	TBLASTX:Maize
Start	188	End	613
GI	none	Score	136
Exons	188..292, 190..294, 203..286, 205..294, 363..461, 364..462, 364..474, 549..611, 581..613, 581..613		

Seq. No.	54436	Seq. ID	OJ000302_26.0419.C48
Gene No.	114176	Strand	+
Start	1668	End	1718
Name	OJ000302_26.0419.C48.o1.gp	Method	AAT/GAP
Start	1668	End	1718

GI	426627	Score	102
Exons	1668..1718		

Seq. No.	54437	Seq. ID	OJ000302_27.0419.C1
Gene No.	114177	Strand	-
Start	580	End	2252
Name	OJ000302_27.0419.C1.o1.np	Method	AAT/NAP
Start	580	End	2252
GI	4914317	Score	612
Exons	580..1684, 2217..2252		
GI Descrip.	(AC005489) F14N23.3 [Arabidopsis thaliana]		

Seq. No.	54437	Seq. ID	OJ000302_27.0419.C1
Gene No.	114177	Strand	-
Start	580	End	2252
Name	OJ000302_27.0419.C1.o1.gs	Method	GENSCAN
Start	600	End	1703
GI	none	Score	.94
Exons	600..1703		

Seq. No.	54437	Seq. ID	OJ000302_27.0419.C1
Gene No.	114177	Strand	-
Start	580	End	2252
Name	OJ000302_27.0419.C1.o1.tc	Method	TBLASTX:Cress
Start	624	End	902
GI	none	Score	63
Exons	624..722, 625..723, 720..902, 721..858, 798..878		

Seq. No.	54437	Seq. ID	OJ000302_27.0419.C1
Gene No.	114177	Strand	-
Start	580	End	2252
Name	OJ000302_27.0419.C1.o1.tm	Method	TBLASTX:Maize
Start	668	End	976
GI	none	Score	241
Exons	668..892, 669..911, 670..867, 894..974, 899..976		

Seq. No.	54437	Seq. ID	OJ000302_27.0419.C1
Gene No.	114177	Strand	-
Start	580	End	2252
Name	OJ000302_27.0419.C1.o1.tw	Method	TBLASTX:Wheat
Start	804	End	1032
GI	none	Score	91
Exons	804..884, 805..867, 809..877, 810..884, 872..928, 876..929, 887..928, 899..1003, 911..1024, 912..1031, 918..1028, 931..1032		

Seq. No.	54438	Seq. ID	OJ000302_27.0419.C2
Gene No.	114178	Strand	-
Start	1322	End	3507
Name	OJ000302_27.0419.C2.o1.gs	Method	GENSCAN
Start	1322	End	3507
GI	none	Score	.67
Exons	1322..1490, 1560..1576, 2792..3105, 3287..3358, 3408..3507		

Seq. No.	54438	Seq. ID	OJ000302_27.0419.C2
Gene No.	114178	Strand	-
Start	1322	End	3507
Name	OJ000302_27.0419.C2.o1.gp	Method	AAT/GAP

Start	2549	End	3120
GI	75091_1.R1084	Score	907
Exons	2549..2843, 2866..3002, 3033..3120		
GI Descrip.	'2145358/emb|CAA71854| 9.0e-09 (Y10922) HD-Zip protein [Arabidopsis thaliana]'		

Seq. No.	54438	Seq. ID	OJ000302_27.0419.C2
Gene No.	114178	Strand	-
Start	1322	End	3507
Name	OJ000302_27.0419.C2.o1.np	Method	AAT/NAP
Start	2792	End	3032
GI	7487527	Score	169
Exons	2792..3032		
GI Descrip.	hypothetical protein T29F13.8 - Arabidopsis thaliana gi|2145356|emb|CAA72007.1| (Y11122) HD-Zip protein [Arabidopsis thaliana] gi|3132474|gb|AAC16263.1| (AC003096) homeodomain transcription factor (ATHB-14) [Arabidopsis thaliana]		

Seq. No.	54438	Seq. ID	OJ000302_27.0419.C2
Gene No.	114178	Strand	-
Start	1322	End	3507
Name	OJ000302_27.0419.C2.o1.tc	Method	TBLASTX:Cress
Start	2817	End	2971
GI	none	Score	126
Exons	2817..2966, 2822..2971		

Seq. No.	54438	Seq. ID	OJ000302_27.0419.C2
Gene No.	114178	Strand	-
Start	1322	End	3507
Name	OJ000302_27.0419.C2.o1.ts	Method	TBLASTX:Soybean
Start	2817	End	2971
GI	none	Score	134
Exons	2817..2969, 2822..2971		

Seq. No.	54438	Seq. ID	OJ000302_27.0419.C2
Gene No.	114178	Strand	-
Start	1322	End	3507
Name	OJ000302_27.0419.C2.o1.tw	Method	TBLASTX:Wheat
Start	2817	End	2971
GI	none	Score	153
Exons	2817..2969, 2820..2948, 2822..2971		

Seq. No.	54439	Seq. ID	OJ000302_27.0419.C3
Gene No.	114179	Strand	+
Start	565	End	1217
Name	OJ000302_27.0419.C3.o1.gp	Method	AAT/GAP
Start	565	End	1217
GI	none	Score	1241
Exons	565..1217		

Seq. No.	54439	Seq. ID	OJ000302_27.0419.C3
Gene No.	114180	Strand	-
Start	1	End	1185
Name	OJ000302_27.0419.C3.o1.np	Method	AAT/NAP
Start	1	End	1185
GI	4914316	Score	88
Exons	1..38, 918..1185		

GI Descrip. (AC005489) F14N23.2 [Arabidopsis thaliana]

Seq. No.	54439	Seq. ID	OJ000302_27.0419.C3
Gene No.	114180	Strand	-
Start	1	End	1185
Name	OJ000302_27.0419.C3.o1.gs	Method	GENSCAN
Start	718	End	1185
GI	none	Score	.8
Exons	718..1185		

Seq. No.	54439	Seq. ID	OJ000302_27.0419.C3
Gene No.	114181	Strand	-
Start	2801	End	3211
Name	OJ000302_27.0419.C3.o1.tm	Method	TBLASTX:Maize
Start	988	End	1146
GI	none	Score	124
Exons	988..1146, 1037..1129		

Seq. No.	54439	Seq. ID	OJ000302_27.0419.C3
Gene No.	114181	Strand	-
Start	2801	End	3211
Name	OJ000302_27.0419.C3.o2.gs	Method	GENSCAN
Start	2801	End	3211
GI	none	Score	.49
Exons	2801..3211		

Seq. No.	54440	Seq. ID	OJ000302_27.0419.C4
Gene No.	114182	Strand	+
Start	76	End	2171
Name	OJ000302_27.0419.C4.o1.gs	Method	GENSCAN
Start	76	End	2117
GI	none	Score	.93
Exons	76..120, 210..393, 538..757, 884..995, 1073..1345, 1423..1688, 1780..1936, 2034..2117		

Seq. No.	54440	Seq. ID	OJ000302_27.0419.C4
Gene No.	114182	Strand	+
Start	76	End	2171
Name	OJ000302_27.0419.C4.o1.np	Method	AAT/NAP
Start	168	End	2171
GI	5430762	Score	1521
Exons	168..393, 538..757, 884..995, 1073..1345, 1423..1688, 1780..1936, 2034..2171		

GI Descrip. (AC007504) Similar to CCS1 [Arabidopsis thaliana]

Seq. No.	54440	Seq. ID	OJ000302_27.0419.C4
Gene No.	114182	Strand	+
Start	76	End	2171
Name	OJ000302_27.0419.C4.o2.tm	Method	TBLASTX:Maize
Start	282	End	760
GI	none	Score	84
Exons	282..395, 284..394, 536..760, 537..758		

Seq. No.	54440	Seq. ID	OJ000302_27.0419.C4
Gene No.	114182	Strand	+
Start	76	End	2171
Name	OJ000302_27.0419.C4.o2.ts	Method	TBLASTX:Soybean

Start	536	End	917
GI	none	Score	276
Exons	536..790, 537..758, 701..760, 869..916, 873..917		

Seq. No.	54440	Seq. ID	OJ000302_27.0419.C4
Gene No.	114182	Strand	+
Start	76	End	2171
Name	OJ000302_27.0419.C4.o1.ts	Method	TBLASTX:Soybean
Start	1073	End	1551
GI	none	Score	350
Exons	1073..1357, 1073..1345, 1075..1347, 1415..1546, 1420..1551, 1422..1544		

Seq. No.	54440	Seq. ID	OJ000302_27.0419.C4
Gene No.	114182	Strand	+
Start	76	End	2171
Name	OJ000302_27.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	1415	End	2128
GI	none	Score	258
Exons	1415..1660, 1420..1677, 1420..1677, 1422..1712, 1776..1934, 1781..1936, 1784..1936, 2001..2126, 2031..2126, 2032..2127, 2033..2128		

Seq. No.	54440	Seq. ID	OJ000302_27.0419.C4
Gene No.	114182	Strand	+
Start	76	End	2171
Name	OJ000302_27.0419.C4.o3.ts	Method	TBLASTX:Soybean
Start	1889	End	2126
GI	none	Score	69
Exons	1889..1939, 1992..2126, 2033..2113		

Seq. No.	54441	Seq. ID	OJ000302_27.0419.C5
Gene No.	114183	Strand	+
Start	1	End	442
Name	OJ000302_27.0419.C5.o1.np	Method	AAT/NAP
Start	1	End	442
GI	7484829	Score	230
Exons	1..442		
GI Descrip.	calmodulin homolog F18B3.50 - Arabidopsis thaliana gi|4835228|emb|CAB42906.1| (AL049862) calmodulin-like protein [Arabidopsis thaliana]		

Seq. No.	54441	Seq. ID	OJ000302_27.0419.C5
Gene No.	114183	Strand	+
Start	1	End	442
Name	OJ000302_27.0419.C5.o1.gs	Method	GENSCAN
Start	71	End	442
GI	none	Score	.46
Exons	71..442		

Seq. No.	54441	Seq. ID	OJ000302_27.0419.C5
Gene No.	114184	Strand	+
Start	1299	End	1996
Name	OJ000302_27.0419.C5.o1.gp	Method	AAT/GAP
Start	1299	End	1996
GI	none	Score	1305
Exons	1299..1996		

Seq. No.	54441	Seq. ID	OJ000302_27.0419.C5
Gene No.	114185	Strand	-
Start	1726	End	2644
Name	OJ000302_27.0419.C5.o3.ts	Method	TBLASTX:Soybean
Start	50	End	442
GI	none	Score	77
Exons	50..148, 233..442, 259..435		

Seq. No.	54441	Seq. ID	OJ000302_27.0419.C5
Gene No.	114185	Strand	-
Start	1726	End	2644
Name	OJ000302_27.0419.C5.o2.tm	Method	TBLASTX:Maize
Start	761	End	1106
GI	none	Score	59
Exons	761..826, 762..818, 802..888, 816..890, 827..889, 923..991, 931..996, 933..989, 1077..1106		

Seq. No.	54441	Seq. ID	OJ000302_27.0419.C5
Gene No.	114185	Strand	-
Start	1726	End	2644
Name	OJ000302_27.0419.C5.o2.np	Method	AAT/NAP
Start	1718	End	2644
GI	7485708	Score	914
Exons	1718..2644		
GI Descrip.	hypothetical protein F18B3.60 - Arabidopsis thaliana gi|4835229|emb|CAB42907.1| (AL049862) putative protein [Arabidopsis thaliana]		

Seq. No.	54441	Seq. ID	OJ000302_27.0419.C5
Gene No.	114185	Strand	-
Start	1726	End	2644
Name	OJ000302_27.0419.C5.o2.gs	Method	GENSCAN
Start	1726	End	2421
GI	none	Score	.89
Exons	1726..2421		

Seq. No.	54441	Seq. ID	OJ000302_27.0419.C5
Gene No.	114185	Strand	-
Start	1726	End	2644
Name	OJ000302_27.0419.C5.o1.tc	Method	TBLASTX:Cress
Start	1756	End	1957
GI	none	Score	206
Exons	1756..1956, 1760..1957		

Seq. No.	54441	Seq. ID	OJ000302_27.0419.C5
Gene No.	114185	Strand	-
Start	1726	End	2644
Name	OJ000302_27.0419.C5.o1.ts	Method	TBLASTX:Soybean
Start	1756	End	2122
GI	none	Score	220
Exons	1756..2094, 1759..2121, 1760..2110, 1763..2122		

Seq. No.	54441	Seq. ID	OJ000302_27.0419.C5
Gene No.	114185	Strand	-
Start	1726	End	2644
Name	OJ000302_27.0419.C5.o1.tm	Method	TBLASTX:Maize

Start	1839	End	2619
GI	none	Score	101
Exons	1839..1970, 1840..2400, 1841..2380, 2380..2508, 2381..2509, 2382..2513, 2384..2521, 2511..2618, 2512..2619, 2514..2618		

Seq. No.	54441	Seq. ID	OJ000302_27.0419.C5
Gene No.	114185	Strand	-
Start	1726	End	2644
Name	OJ000302_27.0419.C5.o1.tw	Method	TBLASTX:Wheat
Start	1894	End	2289
GI	none	Score	520
Exons	1894..2277, 1895..2278, 1897..2289, 1908..2285		

Seq. No.	54441	Seq. ID	OJ000302_27.0419.C5
Gene No.	114185	Strand	-
Start	1726	End	2644
Name	OJ000302_27.0419.C5.o4.ts	Method	TBLASTX:Soybean
Start	2123	End	2334
GI	none	Score	124
Exons	2123..2257, 2125..2256, 2266..2334		

Seq. No.	54441	Seq. ID	OJ000302_27.0419.C5
Gene No.	114185	Strand	-
Start	1726	End	2644
Name	OJ000302_27.0419.C5.o2.ts	Method	TBLASTX:Soybean
Start	2365	End	2644
GI	none	Score	148
Exons	2365..2556, 2372..2539, 2599..2643, 2600..2644		

Seq. No.	54442	Seq. ID	OJ000302_27.0419.C6
Gene No.	114186	Strand	-
Start	1	End	1780
Name	OJ000302_27.0419.C6.o1.np	Method	AAT/NAP
Start	1	End	1198
GI	7485708	Score	378
Exons	1..35, 562..1198		
GI Descrip.	hypothetical protein F18B3.60 - Arabidopsis thaliana gi|4835229|emb|CAB42907.1| (AL049862) putative protein [Arabidopsis thaliana]		

Seq. No.	54442	Seq. ID	OJ000302_27.0419.C6
Gene No.	114186	Strand	-
Start	1	End	1780
Name	OJ000302_27.0419.C6.o1.gs	Method	GENSCAN
Start	557	End	1198
GI	none	Score	.77
Exons	557..1198		

Seq. No.	54442	Seq. ID	OJ000302_27.0419.C6
Gene No.	114186	Strand	-
Start	1	End	1780
Name	OJ000302_27.0419.C6.o1.tm	Method	TBLASTX:Maize
Start	569	End	1018
GI	none	Score	312
Exons	569..898, 569..922, 570..899, 912..1004, 917..1018		

Seq. No.	54442	Seq. ID	OJ000302_27.0419.C6

Gene No.	114186	Strand	-
Start	1	End	1780
Name	OJ000302_27.0419.C6.o1.ts	Method	TBLASTX:Soybean
Start	569	End	811
GI	none	Score	95
Exons	569..811, 570..779, 584..796		

Seq. No.	54442	Seq. ID	OJ000302_27.0419.C6
Gene No.	114186	Strand	-
Start	1	End	1780
Name	OJ000302_27.0419.C6.o1.gp	Method	AAT/GAP
Start	899	End	1780
GI	LIB3475-012-P1-K1-H8	Score	777
Exons	899..1268, 1749..1780		
GI Descrip.	'4835229/emb|CAB42907.1| 1.0e-11 (AL049862) putative protein [Arabidopsis thaliana]'		

Seq. No.	54442	Seq. ID	OJ000302_27.0419.C6
Gene No.	114186	Strand	-
Start	1	End	1780
Name	OJ000302_27.0419.C6.o2.tm	Method	TBLASTX:Maize
Start	1019	End	1206
GI	none	Score	54
Exons	1019..1075, 1020..1055, 1020..1082, 1046..1204, 1053..1205, 1053..1205, 1060..1206		

Seq. No.	54443	Seq. ID	OJ000302_27.0419.C7
Gene No.	114187	Strand	+
Start	411	End	519
Name	OJ000302_27.0419.C7.o1.gs	Method	GENSCAN
Start	411	End	519
GI	none	Score	.72
Exons	411..519		

Seq. No.	54443	Seq. ID	OJ000302_27.0419.C7
Gene No.	114188	Strand	-
Start	107	End	333
Name	OJ000302_27.0419.C7.o1.gp	Method	AAT/GAP
Start	107	End	333
GI	none	Score	342
Exons	107..333		

Seq. No.	54443	Seq. ID	OJ000302_27.0419.C7
Gene No.	114189	Strand	-
Start	1260	End	5056
Name	OJ000302_27.0419.C7.o2.gs	Method	GENSCAN
Start	1260	End	5056
GI	none	Score	.44
Exons	1260..1289, 3321..3727, 3875..3980, 4175..4303, 4436..5056		

Seq. No.	54444	Seq. ID	OJ000302_27.0419.C8
Gene No.	114190	Strand	+
Start	1	End	785
Name	OJ000302_27.0419.C8.o1.np	Method	AAT/NAP
Start	1	End	785
GI	5456938	Score	476
Exons	1..32, 479..785		

GI Descrip. (AB022675) ribosomal protein S9 [Oryza sativa]

Seq. No.	54444	Seq. ID	OJ000302_27.0419.C8
Gene No.	114190	Strand	+
Start	1	End	785
Name	OJ000302_27.0419.C8.o1.gs	Method	GENSCAN
Start	501	End	730
GI	none	Score	.52
Exons	501..730		

Seq. No.	54444	Seq. ID	OJ000302_27.0419.C8
Gene No.	114191	Strand	-
Start	494	End	1027
Name	OJ000302_27.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	475	End	905
GI	none	Score	260
Exons	475..786, 483..788, 500..784, 602..805, 852..902, 858..905		

Seq. No.	54444	Seq. ID	OJ000302_27.0419.C8
Gene No.	114191	Strand	-
Start	494	End	1027
Name	OJ000302_27.0419.C8.o1.tc	Method	TBLASTX:Cress
Start	478	End	848
GI	none	Score	104
Exons	478..705, 483..848, 500..787, 643..798		

Seq. No.	54444	Seq. ID	OJ000302_27.0419.C8
Gene No.	114191	Strand	-
Start	494	End	1027
Name	OJ000302_27.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	483	End	788
GI	none	Score	330
Exons	483..788, 500..784		

Seq. No.	54444	Seq. ID	OJ000302_27.0419.C8
Gene No.	114191	Strand	-
Start	494	End	1027
Name	OJ000302_27.0419.C8.o1.gp	Method	AAT/GAP
Start	494	End	1027
GI	91_1.R1084	Score	1028
Exons	494..1027		

GI Descrip. '5456938/dbj|BAA82395.1| 3.0e-85 (AB022675) ribosomal protein S9 [Oryza sativa]'

Seq. No.	54445	Seq. ID	OJ000302_27.0419.C11
Gene No.	114192	Strand	+
Start	1	End	156
Name	OJ000302_27.0419.C11.o1.gp	Method	AAT/GAP
Start	1	End	156
GI	2669_1.R1084	Score	255
Exons	1..156		

GI Descrip. '3914470/sp|Q40070|PSBR_HORVU 8.0e-26 PHOTOSYSTEM II 10 KD POLYPEPTIDE PRECURSOR >gi_1321868_emb_CAA66373_ (X97771) 10kD PSII protein [Hordeum vulgare]'

Seq. No.	54445	Seq. ID	OJ000302_27.0419.C11
Gene No.	114193	Strand	+

Start	188	End	433
Name	OJ000302_27.0419.C11.o2.gp	Method	AAT/GAP
Start	188	End	433
GI	688_1.R1084	Score	449
Exons	188..433		
GI Descrip.	'226661/prf||1603356CM 6.0e-54 trnA intron ORF 109 [Oryza sativa]'		

Seq. No.	54445	Seq. ID	OJ000302_27.0419.C11
Gene No.	114194	Strand	+
Start	835	End	1052
Name	OJ000302_27.0419.C11.o3.gp	Method	AAT/GAP
Start	835	End	1052
GI	uC-osf1M202083h12b1	Score	333
Exons	835..1052		
GI Descrip.	'552857 3.0e-25 (M31464) atpB gene product [Oryza sativa]'		

Seq. No.	54445	Seq. ID	OJ000302_27.0419.C11
Gene No.	114195	Strand	-
Start	1	End	1932
Name	OJ000302_27.0419.C11.o2.np	Method	AAT/NAP
Start	1	End	926
GI	114559	Score	119
Exons	1..21, 828..926		
GI Descrip.	ATP SYNTHASE BETA CHAIN gi|67836|pir||PWRZB H+-transporting ATP synthase (EC 3.6.1.34) beta chain - rice chloroplast gi|11991|emb|CAA34003| (X15901) atpB; ATPase beta subunit [Oryza sativa] gi|344014|dbj|BAA00334| (D00432) ATP synthetase beta subunit [Oryza sativa] gi|226612|prf||1603356AJ ATPase beta [Oryza sativa]		

Seq. No.	54445	Seq. ID	OJ000302_27.0419.C11
Gene No.	114195	Strand	-
Start	1	End	1932
Name	OJ000302_27.0419.C11.o1.gs	Method	GENSCAN
Start	33	End	1932
GI	none	Score	.67
Exons	33..372, 424..555, 814..877, 1177..1252, 1866..1932		

Seq. No.	54445	Seq. ID	OJ000302_27.0419.C11
Gene No.	114195	Strand	-
Start	1	End	1932
Name	OJ000302_27.0419.C11.o1.np	Method	AAT/NAP
Start	356	End	433
GI	226661	Score	112
Exons	356..433		
GI Descrip.	trnA intron ORF 109 [Oryza sativa]		

Seq. No.	54445	Seq. ID	OJ000302_27.0419.C11
Gene No.	114196	Strand	-
Start	2560	End	2731
Name	OJ000302_27.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	1	End	150
GI	none	Score	254
Exons	1..138, 1..150		

Seq. No.	54445	Seq. ID	OJ000302_27.0419.C11

Gene No.	114196	Strand	-
Start	2560	End	2731
Name	OJ000302_27.0419.C11.o2.tc	Method	TBLASTX:Cress
Start	13	End	141
GI	none	Score	194
Exons	13..132, 14..136, 16..141		

Seq. No.	54445	Seq. ID	OJ000302_27.0419.C11
Gene No.	114196	Strand	-
Start	2560	End	2731
Name	OJ000302_27.0419.C11.o1.ts	Method	TBLASTX:Soybean
Start	38	End	358
GI	none	Score	64
Exons	38..100, 50..100, 51..101, 52..102, 103..195, 113..187, 114..188, 115..192, 184..237, 185..238, 198..251, 234..263, 242..358, 270..326, 277..357		

Seq. No.	54445	Seq. ID	OJ000302_27.0419.C11
Gene No.	114196	Strand	-
Start	2560	End	2731
Name	OJ000302_27.0419.C11.o1.tc	Method	TBLASTX:Cress
Start	150	End	439
GI	none	Score	161
Exons	150..275, 150..275, 270..326, 277..318, 277..414, 278..358, 361..438, 362..439		

Seq. No.	54445	Seq. ID	OJ000302_27.0419.C11
Gene No.	114196	Strand	-
Start	2560	End	2731
Name	OJ000302_27.0419.C11.o1.tw	Method	TBLASTX:Wheat
Start	814	End	1047
GI	none	Score	148
Exons	814..930, 828..926, 828..959, 933..1028, 934..1008, 1006..1047		

Seq. No.	54445	Seq. ID	OJ000302_27.0419.C11
Gene No.	114196	Strand	-
Start	2560	End	2731
Name	OJ000302_27.0419.C11.o3.np	Method	AAT/NAP
Start	2560	End	2731
GI	6069646	Score	106
Exons	2560..2731		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	54446	Seq. ID	OJ000302_27.0419.C12
Gene No.	114197	Strand	-
Start	207	End	2400
Name	OJ000302_27.0419.C12.o1.gs	Method	GENSCAN
Start	207	End	2400
GI	none	Score	.54
Exons	207..384, 943..1071, 1550..1614, 2280..2400		

Seq. No.	54446	Seq. ID	OJ000302_27.0419.C12
Gene No.	114197	Strand	-

Start	207	End	2400
Name	OJ000302_27.0419.C12.o1.gp	Method	AAT/GAP
Start	1159	End	1851
GI	none	Score	1334
Exons	1159..1851		

Seq. No.	54446	Seq. ID	OJ000302_27.0419.C12
Gene No.	114198	Strand	-
Start	4218	End	5744
Name	OJ000302_27.0419.C12.o2.gs	Method	GENSCAN
Start	4218	End	5744
GI	none	Score	.65
Exons	4218..4334, 4352..4493, 4867..5093, 5166..5298, 5602..5744		

Seq. No.	54446	Seq. ID	OJ000302_27.0419.C12
Gene No.	114198	Strand	-
Start	4218	End	5744
Name	OJ000302_27.0419.C12.o1.np	Method	AAT/NAP
Start	4872	End	5732
GI	7340680	Score	188
Exons	4872..5057, 5166..5298, 5602..5732		
GI Descrip.	(AL162508) putative protein [Arabidopsis thaliana]		

Seq. No.	54447	Seq. ID	OJ000302_27.0419.C14
Gene No.	114199	Strand	-
Start	368	End	2353
Name	OJ000302_27.0419.C14.o1.gs	Method	GENSCAN
Start	368	End	2353
GI	none	Score	.84
Exons	368..438, 2332..2353		

Seq. No.	54448	Seq. ID	OJ000302_27.0419.C15
Gene No.	114200	Strand	-
Start	1	End	1065
Name	OJ000302_27.0419.C15.o1.np	Method	AAT/NAP
Start	1	End	1065
GI	5852093	Score	67
Exons	1..169, 616..819, 1004..1065		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	54448	Seq. ID	OJ000302_27.0419.C15
Gene No.	114200	Strand	-
Start	1	End	1065
Name	OJ000302_27.0419.C15.o1.gs	Method	GENSCAN
Start	365	End	931
GI	none	Score	.54
Exons	365..490, 859..931		

Seq. No.	54449	Seq. ID	OJ000302_27.0419.C16
Gene No.	114201	Strand	+
Start	1	End	366
Name	OJ000302_27.0419.C16.o1.gp	Method	AAT/GAP
Start	1	End	366
GI	3762300	Score	670
Exons	1..366		

Seq. No.	54449	Seq. ID	OJ000302_27.0419.C16

Gene No.	114202	Strand	+
Start	1972	End	2400
Name	OJ000302_27.0419.C16.o2.gp	Method	AAT/GAP
Start	1972	End	2400
GI	none	Score	788
Exons	1972..2400		

Seq. No.	54449	Seq. ID	OJ000302_27.0419.C16
Gene No.	114203	Strand	+
Start	6350	End	6908
Name	OJ000302_27.0419.C16.o4.gp	Method	AAT/GAP
Start	6350	End	6908
GI	none	Score	1037
Exons	6350..6908		

Seq. No.	54449	Seq. ID	OJ000302_27.0419.C16
Gene No.	114204	Strand	-
Start	1450	End	5747
Name	OJ000302_27.0419.C16.o1.gs	Method	GENSCAN
Start	1450	End	5669
GI	none	Score	.78
Exons	1450..1585, 3460..3476, 3704..3827, 3898..4135, 4225..4343, 4919..4977, 5344..5565, 5576..5669		

Seq. No.	54449	Seq. ID	OJ000302_27.0419.C16
Gene No.	114204	Strand	-
Start	1450	End	5747
Name	OJ000302_27.0419.C16.o1.tw	Method	TBLASTX:Wheat
Start	3910	End	4954
GI	none	Score	234
Exons	3910..4122, 3910..4149, 4225..4344, 4225..4344, 4227..4352, 4919..4954		

Seq. No.	54449	Seq. ID	OJ000302_27.0419.C16
Gene No.	114204	Strand	-
Start	1450	End	5747
Name	OJ000302_27.0419.C16.o1.tm	Method	TBLASTX:Maize
Start	4053	End	5669
GI	none	Score	77
Exons	4053..4136, 4053..4136, 4054..4152, 4055..4138, 4225..4344, 4225..4335, 4227..4358, 4227..4343, 4919..4978, 4919..4978, 5339..5509, 5379..5600, 5595..5669		

Seq. No.	54449	Seq. ID	OJ000302_27.0419.C16
Gene No.	114204	Strand	-
Start	1450	End	5747
Name	OJ000302_27.0419.C16.o3.gp	Method	AAT/GAP
Start	4072	End	5747
GI	none	Score	930
Exons	4072..4135, 4225..4343, 4918..4977, 5344..5509, 5610..5747		

Seq. No.	54449	Seq. ID	OJ000302_27.0419.C16
Gene No.	114204	Strand	-
Start	1450	End	5747
Name	OJ000302_27.0419.C16.o1.ts	Method	TBLASTX:Soybean
Start	4087	End	5669
GI	none	Score	88

Exons	4087..4137, 4227..4352, 4233..4349, 4922..4978, 5339..5509, 5379..5570, 5595..5669		
Seq. No.	54449	Seq. ID	OJ000302_27.0419.C16
Gene No.	114204	Strand	-
Start	1450	End	5747
Name	OJ000302_27.0419.C16.o1.tc	Method	TBLASTX:Cress
Start	4272	End	5669
GI	none	Score	135
Exons	4272..4352, 5345..5509, 5379..5582, 5595..5669		
Seq. No.	54449	Seq. ID	OJ000302_27.0419.C16
Gene No.	114204	Strand	-
Start	1450	End	5747
Name	OJ000302_27.0419.C16.o2.tw	Method	TBLASTX:Wheat
Start	5345	End	5670
GI	none	Score	91
Exons	5345..5506, 5345..5515, 5379..5510, 5595..5669, 5611..5670		
Seq. No.	54450	Seq. ID	OJ000302_27.0419.C18
Gene No.	114205	Strand	-
Start	269	End	1747
Name	OJ000302_27.0419.C18.o1.gs	Method	GENSCAN
Start	269	End	1747
GI	none	Score	.63
Exons	269..367, 412..539, 889..937, 1335..1411, 1600..1747		
Seq. No.	54450	Seq. ID	OJ000302_27.0419.C18
Gene No.	114205	Strand	-
Start	269	End	1747
Name	OJ000302_27.0419.C18.o1.np	Method	AAT/NAP
Start	1329	End	1735
GI	7527727	Score	106
Exons	1329..1411, 1600..1735		
GI Descrip.	(AC010657) T5E21.10 [Arabidopsis thaliana]		
Seq. No.	54451	Seq. ID	OJ000302_27.0419.C20
Gene No.	114206	Strand	-
Start	720	End	1942
Name	OJ000302_27.0419.C20.o1.np	Method	AAT/NAP
Start	720	End	1942
GI	2493240	Score	133
Exons	720..1487, 1876..1942		
GI Descrip.	HYPOTHETICAL 29.3 KD PROTEIN (ORF92) gi|1911338 (U75930) unknown [Orgyia pseudotsugata nuclear polyhedrosis virus]		
Seq. No.	54452	Seq. ID	OJ000302_27.0419.C21
Gene No.	114207	Strand	+
Start	598	End	2260
Name	OJ000302_27.0419.C21.o1.gs	Method	GENSCAN
Start	598	End	2260
GI	none	Score	.54
Exons	598..655, 1995..2260		
Seq. No.	54453	Seq. ID	OJ000302_27.0419.C24
Gene No.	114208	Strand	+
Start	119	End	235

Name	OJ000302_27.0419.C24.o1.gs	Method	GENSCAN
Start	119	End	235
GI	none	Score	.64
Exons	119..235		

Seq. No.	54454	Seq. ID	OJ000302_27.0419.C25
Gene No.	114209	Strand	-
Start	1	End	1088
Name	OJ000302_27.0419.C25.o1.np	Method	AAT/NAP
Start	1	End	1088
GI	4416302	Score	734
Exons	1..1088		
GI Descrip.	(AF105716) copia-type pol polyprotein [Zea mays]		

Seq. No.	54454	Seq. ID	OJ000302_27.0419.C25
Gene No.	114209	Strand	-
Start	1	End	1088
Name	OJ000302_27.0419.C25.o1.ts	Method	TBLASTX:Soybean
Start	31	End	342
GI	none	Score	150
Exons	31..342, 38..325		

Seq. No.	54454	Seq. ID	OJ000302_27.0419.C25
Gene No.	114209	Strand	-
Start	1	End	1088
Name	OJ000302_27.0419.C25.o1.gs	Method	GENSCAN
Start	41	End	1007
GI	none	Score	.55
Exons	41..1007		

Seq. No.	54454	Seq. ID	OJ000302_27.0419.C25
Gene No.	114209	Strand	-
Start	1	End	1088
Name	OJ000302_27.0419.C25.o1.tm	Method	TBLASTX:Maize
Start	89	End	615
GI	none	Score	218
Exons	89..388, 91..615, 431..577		

Seq. No.	54454	Seq. ID	OJ000302_27.0419.C25
Gene No.	114209	Strand	-
Start	1	End	1088
Name	OJ000302_27.0419.C25.o1.tw	Method	TBLASTX:Wheat
Start	184	End	741
GI	none	Score	138
Exons	184..471, 185..358, 193..363, 529..741		

Seq. No.	54455	Seq. ID	OJ000302_27.0419.C26
Gene No.	114210	Strand	-
Start	48	End	1370
Name	OJ000302_27.0419.C26.o1.gs	Method	GENSCAN
Start	48	End	1370
GI	none	Score	.99
Exons	48..1370		

Seq. No.	54455	Seq. ID	OJ000302_27.0419.C26
Gene No.	114211	Strand	-
Start	1694	End	4580

Name	OJ000302_27.0419.C26.o2.gs	Method	GENSCAN
Start	1694	End	4560
GI	none	Score	.49
Exons	1694..1979, 2110..2306, 2723..2810, 3644..3893, 4475..4560		

Seq. No.	54455	Seq. ID	OJ000302_27.0419.C26
Gene No.	114211	Strand	-
Start	1694	End	4580
Name	OJ000302_27.0419.C26.o2.np	Method	AAT/NAP
Start	2104	End	2365
GI	6539588	Score	113
Exons	2104..2365		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	54455	Seq. ID	OJ000302_27.0419.C26
Gene No.	114211	Strand	-
Start	1694	End	4580
Name	OJ000302_27.0419.C26.o1.gp	Method	AAT/GAP
Start	2562	End	2852
GI	4968598	Score	484
Exons	2562..2852		

Seq. No.	54455	Seq. ID	OJ000302_27.0419.C26
Gene No.	114211	Strand	-
Start	1694	End	4580
Name	OJ000302_27.0419.C26.o2.gp	Method	AAT/GAP
Start	3289	End	4060
GI	13629_1.R1084	Score	1263
Exons	3289..3893, 3986..4060		
GI Descrip.	'5306238/gb|AAD41971.1|AC006438_3 4.0e-21 (AC006438) putative cold acclimation protein WCOR413 [Triticum aestivum] [Arabidopsis thaliana]'		

Seq. No.	54455	Seq. ID	OJ000302_27.0419.C26
Gene No.	114211	Strand	-
Start	1694	End	4580
Name	OJ000302_27.0419.C26.o1.ts	Method	TBLASTX:Soybean
Start	3628	End	4559
GI	none	Score	173
Exons	3628..3894, 3631..3894, 3824..3901, 3987..4058, 3988..4062, 4452..4559, 4477..4557		

Seq. No.	54455	Seq. ID	OJ000302_27.0419.C26
Gene No.	114211	Strand	-
Start	1694	End	4580
Name	OJ000302_27.0419.C26.o1.tm	Method	TBLASTX:Maize
Start	3637	End	4580
GI	none	Score	186
Exons	3637..3894, 3638..3763, 3640..3894, 3815..3901, 3987..4058, 3988..4059, 4452..4559, 4453..4560, 4458..4580, 4460..4573		

Seq. No.	54455	Seq. ID	OJ000302_27.0419.C26
Gene No.	114211	Strand	-
Start	1694	End	4580
Name	OJ000302_27.0419.C26.o3.np	Method	AAT/NAP
Start	3643	End	4560
GI	7489665	Score	473

Exons	3643..3893, 3986..4056, 4453..4560		
GI Descrip.	cold acclimation protein WCOR413 - wheat gi|1657855|gb|AAB18207.1| (U73216) cold acclimation protein WCOR413 [Triticum aestivum]		
Seq. No.	54455	Seq. ID	OJ000302_27.0419.C26
Gene No.	114211	Strand	-
Start	1694	End	4580
Name	OJ000302_27.0419.C26.o1.tc	Method	TBLASTX:Cress
Start	3649	End	4086
GI	none	Score	118
Exons	3649..3879, 3655..3897, 3906..4058, 3975..4055, 4000..4086		
Seq. No.	54456	Seq. ID	OJ000302_27.0419.C27
Gene No.	114212	Strand	+
Start	420	End	2943
Name	OJ000302_27.0419.C27.o2.np	Method	AAT/NAP
Start	420	End	2943
GI	5668803	Score	155
Exons	420..470, 2803..2943		
GI Descrip.	(AC007519) F16N3.14 [Arabidopsis thaliana]		
Seq. No.	54456	Seq. ID	OJ000302_27.0419.C27
Gene No.	114212	Strand	+
Start	420	End	2943
Name	OJ000302_27.0419.C27.o2.gs	Method	GENSCAN
Start	2248	End	2924
GI	none	Score	.77
Exons	2248..2924		
Seq. No.	54456	Seq. ID	OJ000302_27.0419.C27
Gene No.	114213	Strand	-
Start	1	End	701
Name	OJ000302_27.0419.C27.o1.np	Method	AAT/NAP
Start	1	End	578
GI	7489665	Score	155
Exons	1..39, 384..578		
GI Descrip.	cold acclimation protein WCOR413 - wheat gi|1657855|gb|AAB18207.1| (U73216) cold acclimation protein WCOR413 [Triticum aestivum]		
Seq. No.	54456	Seq. ID	OJ000302_27.0419.C27
Gene No.	114213	Strand	-
Start	1	End	701
Name	OJ000302_27.0419.C27.o1.gs	Method	GENSCAN
Start	201	End	587
GI	none	Score	.82
Exons	201..323, 388..587		
Seq. No.	54456	Seq. ID	OJ000302_27.0419.C27
Gene No.	114213	Strand	-
Start	1	End	701
Name	OJ000302_27.0419.C27.o1.gp	Method	AAT/GAP
Start	381	End	701
GI	49780_1.R1084	Score	610
Exons	381..701		
GI Descrip.	'1657855 3.0e-25 (U73216) cold acclimation protein WCOR413		

[Triticum aestivum]'

Seq. No.	54456	Seq. ID	OJ000302_27.0419.C27
Gene No.	114214	Strand	
Start	2692	End	2943
Name	OJ000302_27.0419.C27.o1.tm	Method	TBLASTX:Maize
Start	2692	End	2943
GI	none	Score	67
Exons	2692..2745, 2692..2730, 2773..2943, 2851..2943		

Seq. No.	54457	Seq. ID	OJ000302_27.0419.C28
Gene No.	114215	Strand	+
Start	81	End	507
Name	OJ000302_27.0419.C28.o1.gp	Method	AAT/GAP
Start	81	End	507
GI	none	Score	802
Exons	81..507		

Seq. No.	54457	Seq. ID	OJ000302_27.0419.C28
Gene No.	114216	Strand	-
Start	270	End	6061
Name	OJ000302_27.0419.C28.o5.tm	Method	TBLASTX:Maize
Start	184	End	410
GI	none	Score	45
Exons	184..237, 270..410, 271..405		

Seq. No.	54457	Seq. ID	OJ000302_27.0419.C28
Gene No.	114216	Strand	-
Start	270	End	6061
Name	OJ000302_27.0419.C28.o1.gs	Method	GENSCAN
Start	270	End	6061
GI	none	Score	.78
Exons	270..812, 897..2219, 2479..2548, 3683..3801, 4053..4183, 4197..4263, 4672..4738, 5926..6061		

Seq. No.	54457	Seq. ID	OJ000302_27.0419.C28
Gene No.	114216	Strand	-
Start	270	End	6061
Name	OJ000302_27.0419.C28.o1.np	Method	AAT/NAP
Start	282	End	2571
GI	7459616	Score	1153
Exons	282..412, 444..592, 620..812, 897..1072, 1124..1346, 1386..2072, 2163..2219, 2479..2571		
GI Descrip.	hypothetical protein F18B3.120 - Arabidopsis thaliana gi|4835235|emb|CAB42913.1| (AL049862) putative protein [Arabidopsis thaliana]		

Seq. No.	54457	Seq. ID	OJ000302_27.0419.C28
Gene No.	114216	Strand	-
Start	270	End	6061
Name	OJ000302_27.0419.C28.o1.ts	Method	TBLASTX:Soybean
Start	309	End	1727
GI	none	Score	100
Exons	309..401, 420..566, 444..569, 448..570, 628..750, 630..812, 891..1058, 897..1037, 1119..1202, 1257..1442, 1375..1434, 1479..1661, 1495..1650, 1701..1727, 1701..1727		

Seq. No.	54457	Seq. ID	OJ000302_27.0419.C28
Gene No.	114216	Strand	-
Start	270	End	6061
Name	OJ000302_27.0419.C28.o1.tm	Method	TBLASTX:Maize
Start	417	End	959
GI	none	Score	283
Exons	417..710, 417..812, 625..813, 771..824, 891..959, 897..959		

Seq. No.	54457	Seq. ID	OJ000302_27.0419.C28
Gene No.	114216	Strand	-
Start	270	End	6061
Name	OJ000302_27.0419.C28.o1.tc	Method	TBLASTX:Cress
Start	642	End	1055
GI	none	Score	160
Exons	642..809, 897..1055		

Seq. No.	54457	Seq. ID	OJ000302_27.0419.C28
Gene No.	114216	Strand	-
Start	270	End	6061
Name	OJ000302_27.0419.C28.o4.tm	Method	TBLASTX:Maize
Start	960	End	1118
GI	none	Score	176
Exons	960..1118, 962..1090, 963..1094		

Seq. No.	54457	Seq. ID	OJ000302_27.0419.C28
Gene No.	114216	Strand	-
Start	270	End	6061
Name	OJ000302_27.0419.C28.o3.tm	Method	TBLASTX:Maize
Start	1167	End	1541
GI	none	Score	136
Exons	1167..1268, 1167..1202, 1249..1422, 1250..1285, 1257..1427, 1288..1482, 1410..1541, 1468..1536		

Seq. No.	54457	Seq. ID	OJ000302_27.0419.C28
Gene No.	114216	Strand	-
Start	270	End	6061
Name	OJ000302_27.0419.C28.o2.tc	Method	TBLASTX:Cress
Start	1524	End	1920
GI	none	Score	60
Exons	1524..1628, 1701..1739, 1728..1919, 1825..1920		

Seq. No.	54457	Seq. ID	OJ000302_27.0419.C28
Gene No.	114216	Strand	-
Start	270	End	6061
Name	OJ000302_27.0419.C28.o2.ts	Method	TBLASTX:Soybean
Start	1731	End	2660
GI	none	Score	169
Exons	1731..2039, 1819..2040, 2163..2222, 2479..2547, 2480..2548, 2631..2660, 2640..2660		

Seq. No.	54457	Seq. ID	OJ000302_27.0419.C28
Gene No.	114216	Strand	-
Start	270	End	6061
Name	OJ000302_27.0419.C28.o1.tw	Method	TBLASTX:Wheat
Start	1773	End	2054
GI	none	Score	109
Exons	1773..2054, 1831..2052		

Seq. No.	54457	Seq. ID	OJ000302_27.0419.C28
Gene No.	114216	Strand	-
Start	270	End	6061
Name	OJ000302_27.0419.C28.o2.tm	Method	TBLASTX:Maize
Start	1779	End	2189
GI	none	Score	322
Exons	1779..2060, 1822..2061, 2052..2090, 2155..2187, 2163..2189		

Seq. No.	54457	Seq. ID	OJ000302_27.0419.C28
Gene No.	114216	Strand	-
Start	270	End	6061
Name	OJ000302_27.0419.C28.o2.gp	Method	AAT/GAP
Start	2475	End	2962
GI	none	Score	745
Exons	2475..2548, 2641..2962		

Seq. No.	54458	Seq. ID	OJ000302_27.0419.C29
Gene No.	114217	Strand	+
Start	227	End	1288
Name	OJ000302_27.0419.C29.o1.np	Method	AAT/NAP
Start	227	End	1288
GI	4006860	Score	252
Exons	227..462, 1205..1288		
GI Descrip.	(Z99707) thiol-disulfide interchange like protein [Arabidopsis thaliana] gi|7270669|emb|CAB80386.1| (AL161590) thiol-disulfide interchange like protein [Arabidopsis thaliana]		

Seq. No.	54458	Seq. ID	OJ000302_27.0419.C29
Gene No.	114217	Strand	+
Start	227	End	1288
Name	OJ000302_27.0419.C29.o1.gs	Method	GENSCAN
Start	244	End	597
GI	none	Score	.99
Exons	244..597		

Seq. No.	54458	Seq. ID	OJ000302_27.0419.C29
Gene No.	114218	Strand	-
Start	243	End	396
Name	OJ000302_27.0419.C29.o1.gp	Method	AAT/GAP
Start	243	End	396
GI	2427655	Score	222
Exons	243..396		

Seq. No.	54459	Seq. ID	OJ000302_27.0419.C31
Gene No.	114219	Strand	+
Start	1	End	126
Name	OJ000302_27.0419.C31.o1.np	Method	AAT/NAP
Start	1	End	126
GI	4006860	Score	112
Exons	1..126		
GI Descrip.	(Z99707) thiol-disulfide interchange like protein [Arabidopsis thaliana] gi|7270669|emb|CAB80386.1| (AL161590) thiol-disulfide interchange like protein [Arabidopsis thaliana]		

Seq. No.	54459	Seq. ID	OJ000302_27.0419.C31
Gene No.	114220	Strand	-

Start	48	End	1014
Name	OJ000302_27.0419.C31.o1.gs	Method	GENSCAN
Start	48	End	1014
GI	none	Score	.68
Exons	48..125, 431..524, 972..1014		

Seq. No.	54460	Seq. ID	OJ000302_27.0419.C32
Gene No.	114221	Strand	+
Start	49	End	1006
Name	OJ000302_27.0419.C32.o1.np	Method	AAT/NAP
Start	49	End	1006
GI	6907106	Score	368
Exons	49..407, 449..529, 562..782, 852..1006		
GI Descrip.	(AP001129) EST AU068291(C12960) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	54461	Seq. ID	OJ000302_27.0419.C33
Gene No.	114222	Strand	+
Start	721	End	959
Name	OJ000302_27.0419.C33.o1.gs	Method	GENSCAN
Start	721	End	959
GI	none	Score	.58
Exons	721..851, 899..959		

Seq. No.	54462	Seq. ID	OJ000302_27.0419.C34
Gene No.	114223	Strand	+
Start	718	End	1133
Name	OJ000302_27.0419.C34.o1.gp	Method	AAT/GAP
Start	718	End	1133
GI	91_1.R1084	Score	760
Exons	718..1133		
GI Descrip.	'5456938/dbj|BAA82395.1| 3.0e-85 (AB022675) ribosomal protein S9 [Oryza sativa]'		

Seq. No.	54462	Seq. ID	OJ000302_27.0419.C34
Gene No.	114223	Strand	+
Start	718	End	1133
Name	OJ000302_27.0419.C34.o1.gs	Method	GENSCAN
Start	725	End	1107
GI	none	Score	.57
Exons	725..1107		

Seq. No.	54462	Seq. ID	OJ000302_27.0419.C34
Gene No.	114223	Strand	+
Start	718	End	1133
Name	OJ000302_27.0419.C34.o1.np	Method	AAT/NAP
Start	725	End	1133
GI	5456938	Score	604
Exons	725..1133		
GI Descrip.	(AB022675) ribosomal protein S9 [Oryza sativa]		

Seq. No.	54462	Seq. ID	OJ000302_27.0419.C34
Gene No.	114223	Strand	+
Start	718	End	1133
Name	OJ000302_27.0419.C34.o1.tm	Method	TBLASTX:Maize
Start	733	End	1108
GI	none	Score	239

Exons	733..780, 941..1102, 956..1108, 970..1107		
Seq. No.	54462	Seq. ID	OJ000302_27.0419.C34
Gene No.	114223	Strand	+
Start	718	End	1133
Name	OJ000302_27.0419.C34.o1.tw	Method	TBLASTX:Wheat
Start	733	End	1081
GI	none	Score	81
Exons	733..786, 743..808, 935..1003, 936..980, 952..1041, 956..1081, 973..1077		
Seq. No.	54462	Seq. ID	OJ000302_27.0419.C34
Gene No.	114223	Strand	+
Start	718	End	1133
Name	OJ000302_27.0419.C34.o1.tc	Method	TBLASTX:Cress
Start	965	End	1108
GI	none	Score	196
Exons	965..1108, 970..1107		
Seq. No.	54462	Seq. ID	OJ000302_27.0419.C34
Gene No.	114223	Strand	+
Start	718	End	1133
Name	OJ000302_27.0419.C34.o1.ts	Method	TBLASTX:Soybean
Start	965	End	1108
GI	none	Score	185
Exons	965..1108, 970..1107		
Seq. No.	54463	Seq. ID	OJ000302_27.0419.C35
Gene No.	114224	Strand	-
Start	570	End	703
Name	OJ000302_27.0419.C35.o1.gs	Method	GENSCAN
Start	570	End	703
GI	none	Score	.45
Exons	570..703		
Seq. No.	54464	Seq. ID	OJ000302_27.0419.C36
Gene No.	114225	Strand	+
Start	1	End	1576
Name	OJ000302_27.0419.C36.o1.np	Method	AAT/NAP
Start	1	End	1573
GI	1352186	Score	1512
Exons	1..30, 164..1573		
GI Descrip.	ALLENE OXIDE SYNTHASE PRECURSOR (HYDROPEROXIDE DEHYDRASE) (CYTOCHROME P450 74A) gi|404866 (U00428) allene oxide synthase [Linum usitatissimum]		
Seq. No.	54464	Seq. ID	OJ000302_27.0419.C36
Gene No.	114225	Strand	+
Start	1	End	1576
Name	OJ000302_27.0419.C36.o1.gs	Method	GENSCAN
Start	38	End	1576
GI	none	Score	1
Exons	38..1576		
Seq. No.	54464	Seq. ID	OJ000302_27.0419.C36
Gene No.	114225	Strand	+
Start	1	End	1576

Name	OJ000302_27.0419.C36.o1.gp	Method	AAT/GAP
Start	297	End	622
GI	3762301	Score	523
Exons	297..622		
GI Descrip.	1352186/sp|P48417|CP74_LINUS 5.0e-19 ALLENE OXIDE SYNTHASE PRECURSOR (HYDROPEROXIDE DEHYDRASE) (CYTOCHROME P450 74A) >gi_404866 (U00428) allene oxide synthase [Linum usitatissimum]		

Seq. No.	54464	Seq. ID	OJ000302_27.0419.C36
Gene No.	114225	Strand	+
Start	1	End	1576
Name	OJ000302_27.0419.C36.o2.gp	Method	AAT/GAP
Start	823	End	1284
GI	21396_1.R1084	Score	799
Exons	823..1284		
GI Descrip.	'1352186/sp|P48417|CP74_LINUS 2.0e-46 ALLENE OXIDE SYNTHASE PRECURSOR (HYDROPEROXIDE DEHYDRASE) (CYTOCHROME P450 74A) >gi_404866 (U00428) allene oxide synthase [Linum usitatissimum]'		

Seq. No.	54464	Seq. ID	OJ000302_27.0419.C36
Gene No.	114226	Strand	+
Start	1484	End	1709
Name	OJ000302_27.0419.C36.o2.tw	Method	TBLASTX:Wheat
Start	38	End	247
GI	none	Score	40
Exons	38..79, 101..247		

Seq. No.	54464	Seq. ID	OJ000302_27.0419.C36
Gene No.	114226	Strand	+
Start	1484	End	1709
Name	OJ000302_27.0419.C36.o1.ts	Method	TBLASTX:Soybean
Start	167	End	1576
GI	none	Score	104
Exons	167..271, 256..333, 257..352, 323..1576, 382..522, 619..813, 955..1437, 1516..1572		

Seq. No.	54464	Seq. ID	OJ000302_27.0419.C36
Gene No.	114226	Strand	+
Start	1484	End	1709
Name	OJ000302_27.0419.C36.o1.tc	Method	TBLASTX:Cress
Start	170	End	1594
GI	none	Score	114
Exons	170..271, 256..522, 257..646, 632..721, 677..913, 694..825, 905..1594, 955..1587		

Seq. No.	54464	Seq. ID	OJ000302_27.0419.C36
Gene No.	114226	Strand	+
Start	1484	End	1709
Name	OJ000302_27.0419.C36.o1.tm	Method	TBLASTX:Maize
Start	179	End	1444
GI	none	Score	85
Exons	179..256, 242..1309, 256..825, 848..1099, 955..1308, 1321..1437, 1322..1444		

Seq. No.	54464	Seq. ID	OJ000302_27.0419.C36
Gene No.	114226	Strand	+
Start	1484	End	1709

Name	OJ000302_27.0419.C36.o1.tw	Method	TBLASTX:Wheat
Start	779	End	1174
GI	none	Score	336
Exons	779..1174, 955..1173		

Seq. No.	54464	Seq. ID	OJ000302_27.0419.C36
Gene No.	114226	Strand	+
Start	1484	End	1709
Name	OJ000302_27.0419.C36.o3.gp	Method	AAT/GAP
Start	1484	End	1709
GI	3767473	Score	420
Exons	1484..1709		

Seq. No.	54465	Seq. ID	OJ000302_27.0419.C37
Gene No.	114227	Strand	+
Start	705	End	1393
Name	OJ000302_27.0419.C37.o1.gp	Method	AAT/GAP
Start	705	End	1393
GI	300_11.R1084	Score	1329
Exons	705..1393		
GI Descrip.	'1352186/sp|P48417|CP74_LINUS 5.0e-19 ALLENE OXIDE SYNTHASE PRECURSOR (HYDROPEROXIDE DEHYDRASE) (CYTOCHROME P450 74A) >gi_404866 (U00428) allene oxide synthase [Linum usitatissimum]'		

Seq. No.	54465	Seq. ID	OJ000302_27.0419.C37
Gene No.	114228	Strand	-
Start	991	End	1395
Name	OJ000302_27.0419.C37.o1.gs	Method	GENSCAN
Start	991	End	1395
GI	none	Score	.86
Exons	991..1395		

Seq. No.	54465	Seq. ID	OJ000302_27.0419.C37
Gene No.	114228	Strand	-
Start	991	End	1395
Name	OJ000302_27.0419.C37.o1.np	Method	AAT/NAP
Start	994	End	1395
GI	130946	Score	715
Exons	994..1395		
GI Descrip.	10 KD PROLAMIN PRECURSOR gi|82451|pir||S08219 prolamin, 10K, precursor - rice gi|20296|emb|CAA34926| (X17074) prolamin (AA 1-134) [Oryza sativa] gi|20308|emb|CAA33301| (X15231) 10 kD prolamin [Oryza sativa] gi|551659|emb|CAA57495| (X81970) 10KD prolamin [Oryza sativa] gi|556405 (L36604) prolamin [Oryza sativa] gi|556407 (L36605) prolamin [Oryza sativa] gi|226932|prf		

Seq. No.	54465	Seq. ID	OJ000302_27.0419.C37
Gene No.	114229	Strand	-
Start	1384	End	1453
Name	OJ000302_27.0419.C37.o2.gp	Method	AAT/GAP
Start	1384	End	1453
GI	2799723	Score	83
Exons	1384..1453		
GI Descrip.	20295/emb|X17074|OSPRO10 2.0e-24 Rice DNA for 10kDa prolamin		

Seq. No.	54465	Seq. ID	OJ000302_27.0419.C37
Gene No.	114230	Strand	-

Start	2919	End	4282
Name	OJ000302_27.0419.C37.o2.gs	Method	GENSCAN
Start	2919	End	4273
GI	none	Score	.71
Exons	2919..3005, 3200..3277, 3352..3446, 4153..4273		

Seq. No.	54465	Seq. ID	OJ000302_27.0419.C37
Gene No.	114230	Strand	-
Start	2919	End	4282
Name	OJ000302_27.0419.C37.o3.gp	Method	AAT/GAP
Start	3847	End	4282
GI	2431196	Score	820
Exons	3847..4282		
GI Descrip.	100642/pir||S12453 8.0e-14 prolamin - long-staminate rice >gi_4379327_emb_CAA35855_ (X51488) prolamin [Oryza longistaminata]		

Seq. No.	54465	Seq. ID	OJ000302_27.0419.C37
Gene No.	114230	Strand	-
Start	2919	End	4282
Name	OJ000302_27.0419.C37.o2.np	Method	AAT/NAP
Start	3869	End	4273
GI	130946	Score	477
Exons	3869..4273		
GI Descrip.	10 KD PROLAMIN PRECURSOR gi|82451|pir||S08219 prolamin, 10K, precursor - rice gi|20296|emb|CAA34926| (X17074) prolamin (AA 1-134) [Oryza sativa] gi|20308|emb|CAA33301| (X15231) 10 kD prolamin [Oryza sativa] gi|551659|emb|CAA57495| (X81970) 10KD prolamin [Oryza sativa] gi|556405 (L36604) prolamin [Oryza sativa] gi|556407 (L36605) prolamin [Oryza sativa] gi|226932|prf		

Seq. No.	54466	Seq. ID	OJ000302_27.0419.C38
Gene No.	114231	Strand	-
Start	268	End	822
Name	OJ000302_27.0419.C38.o1.gs	Method	GENSCAN
Start	268	End	709
GI	none	Score	.47
Exons	268..383, 700..709		

Seq. No.	54466	Seq. ID	OJ000302_27.0419.C38
Gene No.	114231	Strand	-
Start	268	End	822
Name	OJ000302_27.0419.C38.o1.np	Method	AAT/NAP
Start	422	End	822
GI	130946	Score	499
Exons	422..822		
GI Descrip.	10 KD PROLAMIN PRECURSOR gi|82451|pir||S08219 prolamin, 10K, precursor - rice gi|20296|emb|CAA34926| (X17074) prolamin (AA 1-134) [Oryza sativa] gi|20308|emb|CAA33301| (X15231) 10 kD prolamin [Oryza sativa] gi|551659|emb|CAA57495| (X81970) 10KD prolamin [Oryza sativa] gi|556405 (L36604) prolamin [Oryza sativa] gi|556407 (L36605) prolamin [Oryza sativa] gi|226932|prf		

Seq. No.	54467	Seq. ID	OJ000302_27.0419.C40
Gene No.	114232	Strand	+
Start	1	End	1849
Name	OJ000302_27.0419.C40.o1.np	Method	AAT/NAP

Start	1	End	1849
GI	5916445	Score	346
Exons	1..217, 437..713, 1598..1849		
GI Descrip.	(AC007633) putative protein [Arabidopsis thaliana]		

Seq. No.	54467	Seq. ID	OJ000302_27.0419.C40
Gene No.	114232	Strand	+
Start	1	End	1849
Name	OJ000302_27.0419.C40.o1.gp	Method	AAT/GAP
Start	60	End	498
GI	LIB3474-006-P1-K1-C6	Score	387
Exons	60..217, 437..498		
GI Descrip.	'3461817 8.0e-31 (AC004138) unknown protein [Arabidopsis thaliana]'		

Seq. No.	54467	Seq. ID	OJ000302_27.0419.C40
Gene No.	114232	Strand	+
Start	1	End	1849
Name	OJ000302_27.0419.C40.o1.gs	Method	GENSCAN
Start	62	End	1848
GI	none	Score	.92
Exons	62..217, 437..713, 1610..1848		

Seq. No.	54467	Seq. ID	OJ000302_27.0419.C40
Gene No.	114233	Strand	-
Start	3085	End	3550
Name	OJ000302_27.0419.C40.o1.ts	Method	TBLASTX:Soybean
Start	155	End	615
GI	none	Score	95
Exons	155..220, 158..223, 166..222, 434..613, 446..541, 447..614, 448..615		

Seq. No.	54467	Seq. ID	OJ000302_27.0419.C40
Gene No.	114233	Strand	-
Start	3085	End	3550
Name	OJ000302_27.0419.C40.o1.tm	Method	TBLASTX:Maize
Start	434	End	1796
GI	none	Score	374
Exons	434..712, 442..711, 444..716, 444..731, 445..729, 1581..1754, 1609..1758, 1762..1794, 1764..1796		

Seq. No.	54467	Seq. ID	OJ000302_27.0419.C40
Gene No.	114233	Strand	-
Start	3085	End	3550
Name	OJ000302_27.0419.C40.o1.tw	Method	TBLASTX:Wheat
Start	434	End	1722
GI	none	Score	180
Exons	434..682, 457..612, 1594..1722, 1596..1721, 1657..1722		

Seq. No.	54467	Seq. ID	OJ000302_27.0419.C40
Gene No.	114233	Strand	-
Start	3085	End	3550
Name	OJ000302_27.0419.C40.o1.tc	Method	TBLASTX:Cress
Start	1608	End	1844
GI	none	Score	216
Exons	1608..1742, 1609..1749, 1747..1830, 1764..1844		

Seq. No.	54467	Seq. ID	OJ000302_27.0419.C40
Gene No.	114233	Strand	-
Start	3085	End	3550
Name	OJ000302_27.0419.C40.o2.gs	Method	GENSCAN
Start	3085	End	3550
GI	none	Score	.98
Exons	3085..3550		

Seq. No.	54468	Seq. ID	OJ000302_27.0419.C41
Gene No.	114234	Strand	+
Start	1390	End	4306
Name	OJ000302_27.0419.C41.o1.gs	Method	GENSCAN
Start	1390	End	4306
GI	none	Score	.5
Exons	1390..1443, 4190..4306		

Seq. No.	54468	Seq. ID	OJ000302_27.0419.C41
Gene No.	114234	Strand	+
Start	1390	End	4306
Name	OJ000302_27.0419.C41.o1.np	Method	AAT/NAP
Start	3378	End	3461
GI	6721547	Score	77
Exons	3378..3461		
GI Descrip.	(AP001073) Similar to Oryza sativa gene for Pib. (AB013448)		

Seq. No.	54469	Seq. ID	OJ000302_27.0419.C42
Gene No.	114235	Strand	+
Start	2352	End	3872
Name	OJ000302_27.0419.C42.o1.gs	Method	GENSCAN
Start	2352	End	3844
GI	none	Score	.77
Exons	2352..2446, 2535..2604, 2734..2817, 3157..3303, 3408..3844		

Seq. No.	54469	Seq. ID	OJ000302_27.0419.C42
Gene No.	114235	Strand	+
Start	2352	End	3872
Name	OJ000302_27.0419.C42.o1.tm	Method	TBLASTX:Maize
Start	2528	End	3529
GI	none	Score	60
Exons	2528..2602, 2530..2598, 2703..2816, 2734..2832, 3178..3294, 3180..3257, 3348..3479, 3405..3473, 3473..3508, 3474..3509, 3503..3529		

Seq. No.	54469	Seq. ID	OJ000302_27.0419.C42
Gene No.	114235	Strand	+
Start	2352	End	3872
Name	OJ000302_27.0419.C42.o1.np	Method	AAT/NAP
Start	3157	End	3872
GI	7486263	Score	122
Exons	3157..3303, 3406..3533, 3827..3872		
GI Descrip.	hypothetical protein F27L4.12 - Arabidopsis thaliana gi|3152613|gb|AAC17092.1| (AC004482) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	54469	Seq. ID	OJ000302_27.0419.C42
Gene No.	114235	Strand	+
Start	2352	End	3872

Name	OJ000302_27.0419.C42.o2.tm	Method	TBLASTX:Maize
Start	3614	End	3860
GI	none	Score	136
Exons	3614..3784, 3615..3785, 3779..3823, 3780..3824, 3809..3856, 3810..3860		

Seq. No.	54470	Seq. ID	OJ000302_27.0419.C43
Gene No.	114236	Strand	+
Start	1	End	2003
Name	OJ000302_27.0419.C43.o1.np	Method	AAT/NAP
Start	1	End	1873
GI	7486263	Score	668
Exons	1..296, 327..398, 495..618, 712..771, 866..952, 1062..1199, 1574..1873		
GI Descrip.	hypothetical protein F27L4.12 - Arabidopsis thaliana gi|3152613|gb|AAC17092.1| (AC004482) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	54470	Seq. ID	OJ000302_27.0419.C43
Gene No.	114236	Strand	+
Start	1	End	2003
Name	OJ000302_27.0419.C43.o2.tm	Method	TBLASTX:Maize
Start	15	End	162
GI	none	Score	228
Exons	15..161, 16..162, 17..160		

Seq. No.	54470	Seq. ID	OJ000302_27.0419.C43
Gene No.	114236	Strand	+
Start	1	End	2003
Name	OJ000302_27.0419.C43.o2.ts	Method	TBLASTX:Soybean
Start	45	End	404
GI	none	Score	175
Exons	45..182, 47..163, 75..182, 242..370, 243..404, 304..387		

Seq. No.	54470	Seq. ID	OJ000302_27.0419.C43
Gene No.	114236	Strand	+
Start	1	End	2003
Name	OJ000302_27.0419.C43.o1.gs	Method	GENSCAN
Start	120	End	1888
GI	none	Score	.75
Exons	120..424, 519..618, 712..771, 866..952, 1062..1199, 1574..1888		

Seq. No.	54470	Seq. ID	OJ000302_27.0419.C43
Gene No.	114236	Strand	+
Start	1	End	2003
Name	OJ000302_27.0419.C43.o3.tm	Method	TBLASTX:Maize
Start	300	End	431
GI	none	Score	204
Exons	300..425, 300..431, 301..426		

Seq. No.	54470	Seq. ID	OJ000302_27.0419.C43
Gene No.	114236	Strand	+
Start	1	End	2003
Name	OJ000302_27.0419.C43.o1.ts	Method	TBLASTX:Soybean
Start	1133	End	1867
GI	none	Score	91
Exons	1133..1201, 1134..1202, 1151..1210, 1541..1693, 1573..1863,		

1574..1867

Seq. No.	54470	Seq. ID	OJ000302_27.0419.C43
Gene No.	114236	Strand	+
Start	1	End	2003
Name	OJ000302_27.0419.C43.o1.tm	Method	TBLASTX:Maize
Start	1579	End	2003
GI	none	Score	336
Exons	1579..1794, 1580..1807, 1580..1801, 1772..1888, 1802..1888, 1965..2003		

Seq. No.	54471	Seq. ID	OJ000302_27.0419.C45
Gene No.	114237	Strand	+
Start	1	End	4323
Name	OJ000302_27.0419.C45.o1.np	Method	AAT/NAP
Start	1	End	1167
GI	6815115	Score	1766
Exons	1..1167		
GI Descrip.	(AB037543) ATP synthase beta subunit [Oryza sativa]		

Seq. No.	54471	Seq. ID	OJ000302_27.0419.C45
Gene No.	114237	Strand	+
Start	1	End	4323
Name	OJ000302_27.0419.C45.o1.gs	Method	GENSCAN
Start	75	End	3978
GI	none	Score	.45
Exons	75..925, 1294..1475, 1783..1849, 3106..3459, 3839..3978		

Seq. No.	54471	Seq. ID	OJ000302_27.0419.C45
Gene No.	114237	Strand	+
Start	1	End	4323
Name	OJ000302_27.0419.C45.o2.np	Method	AAT/NAP
Start	1167	End	1577
GI	114601	Score	696
Exons	1167..1577		
GI Descrip.	ATP SYNTHASE EPSILON CHAIN gi|67868|pir||PWRZE H+-transporting ATP synthase (EC 3.6.1.34) epsilon chain - rice chloroplast gi|11990|emb|CAA34002| (X15901) atpE; ATPase epsilon subunit [Oryza sativa] gi|343204 (M31464) atpE gene product [Oryza sativa] gi|226611|prf||1603356AH ATPase epsilon [Oryza sativa]		

Seq. No.	54471	Seq. ID	OJ000302_27.0419.C45
Gene No.	114237	Strand	+
Start	1	End	4323
Name	OJ000302_27.0419.C45.o3.np	Method	AAT/NAP
Start	1782	End	2981
GI	7459557	Score	583
Exons	1782..1901, 2637..2981		
GI Descrip.	hypothetical protein 155 - rice mitochondrion gi|2145457|emb|CAA73805.1| (Y13378) hypothetical protein [Oryza sativa] gi|2145459|emb|CAA73806.1| (Y13379) hypothetical protein [Oryza sativa]		

Seq. No.	54471	Seq. ID	OJ000302_27.0419.C45
Gene No.	114237	Strand	+
Start	1	End	4323
Name	OJ000302_27.0419.C45.o4.np	Method	AAT/NAP

Start	3063	End	4323
GI	485862	Score	417
Exons	3063..3390, 4265..4323		
GI Descrip.	(X75036) NADH dehydrogenase [Triticum aestivum]		

Seq. No.	54471	Seq. ID	OJ000302_27.0419.C45
Gene No.	114238	Strand	+
Start	4224	End	4323
Name	OJ000302_27.0419.C45.o1.tc	Method	TBLASTX:Cress
Start	35	End	1660
GI	none	Score	190
Exons	35..928, 36..242, 37..954, 333..953, 1011..1355, 1011..1334, 1322..1405, 1326..1565, 1332..1493, 1336..1566, 1336..1500, 1490..1660		

Seq. No.	54471	Seq. ID	OJ000302_27.0419.C45
Gene No.	114238	Strand	+
Start	4224	End	4323
Name	OJ000302_27.0419.C45.o1.tm	Method	TBLASTX:Maize
Start	36	End	1139
GI	none	Score	399
Exons	36..248, 37..339, 115..357, 358..954, 358..714, 369..953, 754..1050, 1011..1139, 1012..1134		

Seq. No.	54471	Seq. ID	OJ000302_27.0419.C45
Gene No.	114238	Strand	+
Start	4224	End	4323
Name	OJ000302_27.0419.C45.o2.ts	Method	TBLASTX:Soybean
Start	36	End	268
GI	none	Score	196
Exons	36..251, 36..266, 37..267, 37..267, 38..268		

Seq. No.	54471	Seq. ID	OJ000302_27.0419.C45
Gene No.	114238	Strand	+
Start	4224	End	4323
Name	OJ000302_27.0419.C45.o1.tw	Method	TBLASTX:Wheat
Start	36	End	639
GI	none	Score	207
Exons	36..221, 37..207, 232..270, 277..339, 358..639, 364..633, 369..638		

Seq. No.	54471	Seq. ID	OJ000302_27.0419.C45
Gene No.	114238	Strand	+
Start	4224	End	4323
Name	OJ000302_27.0419.C45.o1.ts	Method	TBLASTX:Soybean
Start	269	End	1566
GI	none	Score	348
Exons	269..595, 269..913, 271..954, 333..953, 794..955, 1011..1565, 1011..1475, 1015..1482, 1177..1566, 1490..1564		

Seq. No.	54471	Seq. ID	OJ000302_27.0419.C45
Gene No.	114238	Strand	+
Start	4224	End	4323
Name	OJ000302_27.0419.C45.o3.tw	Method	TBLASTX:Wheat
Start	727	End	1107
GI	none	Score	269
Exons	727..954, 750..953, 1011..1106, 1012..1107		

Seq. No.	54471	Seq. ID	OJ000302_27.0419.C45
Gene No.	114238	Strand	+
Start	4224	End	4323
Name	OJ000302_27.0419.C45.o3.tm	Method	TBLASTX:Maize
Start	1243	End	1627
GI	none	Score	72
Exons	1243..1290, 1243..1290, 1244..1312, 1280..1405, 1297..1626, 1297..1587, 1490..1627		

Seq. No.	54471	Seq. ID	OJ000302_27.0419.C45
Gene No.	114238	Strand	+
Start	4224	End	4323
Name	OJ000302_27.0419.C45.o2.tm	Method	TBLASTX:Maize
Start	1795	End	2427
GI	none	Score	51
Exons	1795..1860, 1845..2099, 1892..2098, 2093..2146, 2094..2426, 2095..2427, 2096..2425		

Seq. No.	54471	Seq. ID	OJ000302_27.0419.C45
Gene No.	114238	Strand	+
Start	4224	End	4323
Name	OJ000302_27.0419.C45.o3.ts	Method	TBLASTX:Soybean
Start	1935	End	2604
GI	none	Score	83
Exons	1935..2000, 1943..2002, 1946..2017, 2073..2105, 2075..2104, 2199..2234, 2199..2234, 2236..2304, 2244..2276, 2258..2329, 2282..2395, 2314..2412, 2322..2396, 2331..2465, 2418..2447, 2446..2520, 2454..2540, 2458..2532, 2484..2603, 2499..2564, 2500..2604, 2515..2601, 2516..2602		

Seq. No.	54471	Seq. ID	OJ000302_27.0419.C45
Gene No.	114238	Strand	+
Start	4224	End	4323
Name	OJ000302_27.0419.C45.o2.tc	Method	TBLASTX:Cress
Start	2027	End	2583
GI	none	Score	44
Exons	2027..2065, 2075..2104, 2111..2335, 2172..2237, 2222..2329, 2322..2384, 2343..2381, 2412..2462, 2443..2520, 2448..2519, 2458..2520, 2514..2555, 2514..2564, 2515..2583, 2516..2581		

Seq. No.	54471	Seq. ID	OJ000302_27.0419.C45
Gene No.	114238	Strand	+
Start	4224	End	4323
Name	OJ000302_27.0419.C45.o4.tm	Method	TBLASTX:Maize
Start	2512	End	2625
GI	none	Score	175
Exons	2512..2625, 2512..2622, 2513..2623		

Seq. No.	54471	Seq. ID	OJ000302_27.0419.C45
Gene No.	114238	Strand	+
Start	4224	End	4323
Name	OJ000302_27.0419.C45.o2.tw	Method	TBLASTX:Wheat
Start	2792	End	3031
GI	none	Score	382
Exons	2792..3031, 2792..3031		

Seq. No.	54471	Seq. ID	OJ000302_27.0419.C45
Gene No.	114238	Strand	+
Start	4224	End	4323
Name	OJ000302_27.0419.C45.o4.ts	Method	TBLASTX:Soybean
Start	3117	End	3389
GI	none	Score	181
Exons	3117..3389		

Seq. No.	54471	Seq. ID	OJ000302_27.0419.C45
Gene No.	114238	Strand	+
Start	4224	End	4323
Name	OJ000302_27.0419.C45.o5.np	Method	AAT/NAP
Start	4224	End	4323
GI	82227	Score	104
Exons	4224..4323		
GI Descrip.	hypothetical protein 75 - common tobacco chloroplast gi|11786|emb|CAA26288| (X02441) unidentified reading frame ORF 75 [Nicotiana tabacum] gi|11880|emb|CAA77393| (Z00044) hypothetical protein [Nicotiana tabacum] gi|473681 (M23767) ORF 75; putative [Nicotiana tabacum] gi|1223679|emb|CAA77400| (Z00044) hypothetical protein [Nicotiana tabacum] gi|225251|prf||1211235CK ORF 75 [Ni		

Seq. No.	54472	Seq. ID	OJ000302_27.0419.C46
Gene No.	114239	Strand	+
Start	1	End	60
Name	OJ000302_27.0419.C46.o1.gp	Method	AAT/GAP
Start	1	End	60
GI	1629_2.R1084	Score	98
Exons	1..60		
GI Descrip.	'1245217/gb|U49840|OSU49840 1.0e-170 Oryza sativa subsp. indica large ribosomal RNA gene, chloroplast gene encoding chloroplast rRNA, partial sequence'		

Seq. No.	54472	Seq. ID	OJ000302_27.0419.C46
Gene No.	114240	Strand	
Start	98	End	454
Name	OJ000302_27.0419.C46.o1.tc	Method	TBLASTX:Cress
Start	98	End	454
GI	none	Score	291
Exons	98..277, 100..276, 101..295, 252..359, 252..344, 278..355, 407..454, 416..454		

Seq. No.	54472	Seq. ID	OJ000302_27.0419.C46
Gene No.	114241	Strand	
Start	391	End	764
Name	OJ000302_27.0419.C46.o1.tm	Method	TBLASTX:Maize
Start	391	End	741
GI	none	Score	338
Exons	391..606, 396..605, 400..606, 407..688, 595..729, 597..731, 603..740, 604..741		

Seq. No.	54472	Seq. ID	OJ000302_27.0419.C46
Gene No.	114241	Strand	
Start	391	End	764
Name	OJ000302_27.0419.C46.o2.tw	Method	TBLASTX:Wheat
Start	402	End	527

GI	none	Score	212
Exons	402..527, 403..525		

Seq. No.	54472	Seq. ID	OJ000302_27.0419.C46
Gene No.	114241	Strand	
Start	391	End	764
Name	OJ000302_27.0419.C46.o1.tw	Method	TBLASTX:Wheat
Start	528	End	764
GI	none	Score	103
Exons	528..599, 528..599, 529..600, 529..606, 588..764, 592..762, 593..763		

Seq. No.	54473	Seq. ID	OJ000302_27.0419.C48
Gene No.	114242	Strand	-
Start	142	End	210
Name	OJ000302_27.0419.C48.o1.np	Method	AAT/NAP
Start	142	End	210
GI	82521	Score	112
Exons	142..210		
GI Descrip.	hypothetical 2.5K protein (trnR-rps15 intergenic region) - rice chloroplast gi|2130153|pir||S58624 hypothetical protein 23 - maize chloroplast gi|12043|emb|CAA33946| (X15901) ORF23 [Oryza sativa] gi|12059|emb|CAA33914| (X15901) ORF23 [Oryza sativa] gi|902278|emb|CAA60343| (X86563) ORF23 [Zea mays] gi|902293|emb|CAA60357| (X86563) ORF23 [Zea mays] gi|226662|prf||1603356CN ORF		

Seq. No.	54473	Seq. ID	OJ000302_27.0419.C48
Gene No.	114243	Strand	-
Start	210	End	487
Name	OJ000302_27.0419.C48.o1.ts	Method	TBLASTX:Soybean
Start	164	End	487
GI	none	Score	79
Exons	164..247, 166..246, 250..336, 251..337, 251..340, 253..342, 435..485, 437..487		

Seq. No.	54473	Seq. ID	OJ000302_27.0419.C48
Gene No.	114243	Strand	-
Start	210	End	487
Name	OJ000302_27.0419.C48.o1.tm	Method	TBLASTX:Maize
Start	178	End	458
GI	none	Score	104
Exons	178..252, 179..250, 179..253, 180..275, 220..456, 231..458, 232..456, 249..458		

Seq. No.	54473	Seq. ID	OJ000302_27.0419.C48
Gene No.	114243	Strand	-
Start	210	End	487
Name	OJ000302_27.0419.C48.o2.np	Method	AAT/NAP
Start	210	End	339
GI	1334366	Score	155
Exons	210..339		
GI Descrip.	(X02441) gtg start [Nicotiana tabacum]		

Seq. No.	54473	Seq. ID	OJ000302_27.0419.C48
Gene No.	114244	Strand	
Start	419	End	924

Name	OJ000302_27.0419.C48.o1.tc	Method	TBLASTX:Cress
Start	419	End	924
GI	none	Score	76
Exons	419..475, 422..496, 484..534, 485..535, 568..747, 570..746, 571..765, 722..829, 722..814, 748..825, 877..924, 886..924		

Seq. No.	54473	Seq. ID	OJ000302_27.0419.C48
Gene No.	114245	Strand	
Start	861	End	1042
Name	OJ000302_27.0419.C48.o2.tm	Method	TBLASTX:Maize
Start	861	End	1042
GI	none	Score	281
Exons	861..1040, 866..1042, 886..1041		

Seq. No.	54473	Seq. ID	OJ000302_27.0419.C48
Gene No.	114245	Strand	
Start	861	End	1042
Name	OJ000302_27.0419.C48.o1.tw	Method	TBLASTX:Wheat
Start	873	End	1041
GI	none	Score	280
Exons	873..1040, 873..1040, 877..1041, 886..1041		

Seq. No.	54474	Seq. ID	OJ000302_27.0419.C50
Gene No.	114246	Strand	-
Start	614	End	761
Name	OJ000302_27.0419.C50.o1.np	Method	AAT/NAP
Start	614	End	761
GI	4416302	Score	102
Exons	614..761		
GI Descrip.	(AF105716) copia-type pol polyprotein [Zea mays]		

Seq. No.	54475	Seq. ID	OJ000322_20.0419.C2
Gene No.	114247	Strand	+
Start	4874	End	5796
Name	OJ000322_20.0419.C2.o1.np	Method	AAT/NAP
Start	4874	End	5796
GI	133999	Score	274
Exons	4874..5024, 5402..5537, 5612..5796		
GI Descrip.	CHLOROPLAST 30S RIBOSOMAL PROTEIN S7 gi|70904|pir||R3RZ7 ribosomal protein S7 - rice chloroplast gi|12037|emb|CAA33942| (X15901) ribosomal protein S7 [Oryza sativa] gi|12065|emb|CAA33919| (X15901) ribosomal protein S7 [Oryza sativa] gi|226657|prf||1603356CH ribosomal protein S7 [Oryza sativa]		

Seq. No.	54475	Seq. ID	OJ000322_20.0419.C2
Gene No.	114248	Strand	-
Start	2513	End	4166
Name	OJ000322_20.0419.C2.o2.gs	Method	GENSCAN
Start	2513	End	4166
GI	none	Score	.95
Exons	2513..2788, 3146..3499, 3578..3738, 3818..4166		

Seq. No.	54475	Seq. ID	OJ000322_20.0419.C2
Gene No.	114249	Strand	-
Start	8179	End	8653
Name	OJ000322_20.0419.C2.o2.tc	Method	TBLASTX:Cress

Start	5441	End	5924
GI	none	Score	46
Exons	5441..5488, 5455..5487, 5496..5522, 5538..5561, 5565..5630, 5594..5773, 5595..5735, 5596..5742, 5719..5820, 5720..5800, 5755..5814, 5756..5830, 5815..5910, 5822..5890, 5895..5924		

Seq. No.	54475	Seq. ID	OJ000322_20.0419.C2
Gene No.	114249	Strand	-
Start	8179	End	8653
Name	OJ000322_20.0419.C2.o2.tm	Method	TBLASTX:Maize
Start	5441	End	6008
GI	none	Score	67
Exons	5441..5494, 5455..5496, 5460..5522, 5491..5520, 5493..5522, 5538..5570, 5538..5567, 5547..5630, 5549..5614, 5563..5736, 5566..5595, 5582..5743, 5595..5744, 5595..5744, 5596..5745, 5719..5829, 5720..5821, 5756..5842, 5757..5822, 5815..5982, 5819..5986, 5822..5980, 5824..5982, 5826..6008		

Seq. No.	54475	Seq. ID	OJ000322_20.0419.C2
Gene No.	114249	Strand	-
Start	8179	End	8653
Name	OJ000322_20.0419.C2.o2.ts	Method	TBLASTX:Soybean
Start	5441	End	5986
GI	none	Score	42
Exons	5441..5485, 5455..5484, 5496..5522, 5589..5735, 5595..5735, 5596..5742, 5723..5815, 5755..5820, 5756..5830, 5815..5919, 5822..5944, 5891..5926, 5895..5930, 5957..5986		

Seq. No.	54475	Seq. ID	OJ000322_20.0419.C2
Gene No.	114249	Strand	-
Start	8179	End	8653
Name	OJ000322_20.0419.C2.o1.tc	Method	TBLASTX:Cress
Start	8179	End	8551
GI	none	Score	210
Exons	8179..8415, 8189..8419, 8428..8550, 8429..8551		

Seq. No.	54475	Seq. ID	OJ000322_20.0419.C2
Gene No.	114249	Strand	-
Start	8179	End	8653
Name	OJ000322_20.0419.C2.o2.np	Method	AAT/NAP
Start	8179	End	8616
GI	3582339	Score	504
Exons	8179..8616		
GI Descrip.	(AC005496) unknown protein [Arabidopsis thaliana]		

Seq. No.	54475	Seq. ID	OJ000322_20.0419.C2
Gene No.	114249	Strand	-
Start	8179	End	8653
Name	OJ000322_20.0419.C2.o1.tm	Method	TBLASTX:Maize
Start	8185	End	8590
GI	none	Score	552
Exons	8185..8589, 8186..8590		

Seq. No.	54475	Seq. ID	OJ000322_20.0419.C2
Gene No.	114249	Strand	-
Start	8179	End	8653
Name	OJ000322_20.0419.C2.o1.ts	Method	TBLASTX:Soybean

Start	8185	End	8613
GI	none	Score	461
Exons	8185..8550, 8186..8551, 8560..8613		

Seq. No.	54475	Seq. ID	OJ000322_20.0419.C2
Gene No.	114249	Strand	-
Start	8179	End	8653
Name	OJ000322_20.0419.C2.o1.tw	Method	TBLASTX:Wheat
Start	8392	End	8653
GI	none	Score	232
Exons	8392..8580, 8396..8569, 8575..8652, 8576..8653		

Seq. No.	54476	Seq. ID	OJ000322_20.0419.C3
Gene No.	114250	Strand	+
Start	1080	End	1157
Name	OJ000322_20.0419.C3.o1.gs	Method	GENSCAN
Start	1080	End	1157
GI	none	Score	.8
Exons	1080..1157		

Seq. No.	54477	Seq. ID	OJ000322_20.0419.C4
Gene No.	114251	Strand	+
Start	229	End	1454
Name	OJ000322_20.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	224	End	1454
GI	none	Score	120
Exons	224..313, 226..312, 1174..1260, 1176..1259, 1180..1266, 1328..1432, 1328..1432, 1371..1454		

Seq. No.	54477	Seq. ID	OJ000322_20.0419.C4
Gene No.	114251	Strand	+
Start	229	End	1454
Name	OJ000322_20.0419.C4.o1.ts	Method	TBLASTX:Soybean
Start	224	End	1454
GI	none	Score	120
Exons	224..313, 226..312, 1174..1260, 1176..1259, 1180..1266, 1328..1432, 1328..1432, 1371..1454		

Seq. No.	54477	Seq. ID	OJ000322_20.0419.C4
Gene No.	114251	Strand	+
Start	229	End	1454
Name	OJ000322_20.0419.C4.o1.gs	Method	GENSCAN
Start	229	End	1429
GI	none	Score	.74
Exons	229..311, 1173..1260, 1280..1429		

Seq. No.	54478	Seq. ID	OJ000322_20.0419.C5
Gene No.	114252	Strand	+
Start	1437	End	2200
Name	OJ000322_20.0419.C5.o1.gp	Method	AAT/GAP
Start	1437	End	2200
GI	37382_1.R1084	Score	1095
Exons	1437..2030, 2171..2200		
GI Descrip.	'1531758/emb|CAA67308| 3.0e-93 (X98772) AUX1 [Arabidopsis thaliana] >gi_3335360 (AC003028) unknown protein [Arabidopsis thaliana]'		

Seq. No.	54478	Seq. ID	OJ000322_20.0419.C5
Gene No.	114253	Strand	-
Start	1805	End	2200
Name	OJ000322_20.0419.C5.o1.np	Method	AAT/NAP
Start	1805	End	2200
GI	6759447	Score	271
Exons	1805..2023, 2141..2200		
GI Descrip.	(AL137189) LAX1 / AUX1-like permease [Arabidopsis thaliana]		

Seq. No.	54478	Seq. ID	OJ000322_20.0419.C5
Gene No.	114253	Strand	-
Start	1805	End	2200
Name	OJ000322_20.0419.C5.o1.ts	Method	TBLASTX:Soybean
Start	1809	End	2032
GI	none	Score	211
Exons	1809..2027, 1832..1912, 1955..2032		

Seq. No.	54478	Seq. ID	OJ000322_20.0419.C5
Gene No.	114253	Strand	-
Start	1805	End	2200
Name	OJ000322_20.0419.C5.o1.tc	Method	TBLASTX:Cress
Start	1823	End	2029
GI	none	Score	150
Exons	1823..1912, 1848..2024, 1955..2029		

Seq. No.	54478	Seq. ID	OJ000322_20.0419.C5
Gene No.	114253	Strand	-
Start	1805	End	2200
Name	OJ000322_20.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	1838	End	2042
GI	none	Score	241
Exons	1838..1912, 1839..2039, 1955..2032, 1971..2042, 1984..2040		

Seq. No.	54479	Seq. ID	OJ000322_20.0419.C6
Gene No.	114254	Strand	+
Start	652	End	1131
Name	OJ000322_20.0419.C6.o1.gp	Method	AAT/GAP
Start	652	End	1131
GI	37382_1.R1084	Score	822
Exons	652..1131		
GI Descrip.	'1531758/emb|CAA67308| 3.0e-93 (X98772) AUX1 [Arabidopsis thaliana] >gi_3335360 (AC003028) unknown protein [Arabidopsis thaliana]'		

Seq. No.	54479	Seq. ID	OJ000322_20.0419.C6
Gene No.	114255	Strand	-
Start	160	End	1122
Name	OJ000322_20.0419.C6.o1.gs	Method	GENSCAN
Start	160	End	1115
GI	none	Score	.6
Exons	160..444, 657..1115		

Seq. No.	54479	Seq. ID	OJ000322_20.0419.C6
Gene No.	114255	Strand	-
Start	160	End	1122
Name	OJ000322_20.0419.C6.o1.np	Method	AAT/NAP
Start	645	End	1122

GI	7485590	Score	703
Exons	645..1122		
GI Descrip.	hypothetical protein F16M14.5 - Arabidopsis thaliana gi|1531758|emb|CAA67308.1| (X98772) AUX1 [Arabidopsis thaliana] gi|3335360|gb|AAC27161.1| (AC003028) unknown protein [Arabidopsis thaliana]		
Seq. No.	54479	Seq. ID	OJ000322_20.0419.C6
Gene No.	114255	Strand	-
Start	160	End	1122
Name	OJ000322_20.0419.C6.o2.tm	Method	TBLASTX:Maize
Start	651	End	819
GI	none	Score	56
Exons	651..692, 657..818, 658..819		
Seq. No.	54479	Seq. ID	OJ000322_20.0419.C6
Gene No.	114255	Strand	-
Start	160	End	1122
Name	OJ000322_20.0419.C6.o1.ts	Method	TBLASTX:Soybean
Start	660	End	981
GI	none	Score	337
Exons	660..980, 664..981		
Seq. No.	54479	Seq. ID	OJ000322_20.0419.C6
Gene No.	114255	Strand	-
Start	160	End	1122
Name	OJ000322_20.0419.C6.o1.tc	Method	TBLASTX:Cress
Start	750	End	996
GI	none	Score	244
Exons	750..992, 754..996		
Seq. No.	54479	Seq. ID	OJ000322_20.0419.C6
Gene No.	114255	Strand	-
Start	160	End	1122
Name	OJ000322_20.0419.C6.o1.tm	Method	TBLASTX:Maize
Start	820	End	1122
GI	none	Score	444
Exons	820..1122, 822..1121		
Seq. No.	54479	Seq. ID	OJ000322_20.0419.C6
Gene No.	114255	Strand	-
Start	160	End	1122
Name	OJ000322_20.0419.C6.o2.ts	Method	TBLASTX:Soybean
Start	982	End	1122
GI	none	Score	139
Exons	982..1122, 984..1121		
Seq. No.	54479	Seq. ID	OJ000322_20.0419.C6
Gene No.	114255	Strand	-
Start	160	End	1122
Name	OJ000322_20.0419.C6.o2.tc	Method	TBLASTX:Cress
Start	996	End	1122
GI	none	Score	145
Exons	996..1121, 997..1122		
Seq. No.	54480	Seq. ID	OJ000322_20.0419.C7
Gene No.	114256	Strand	-

Start	1	End	2275
Name	OJ000322_20.0419.C7.o1.np	Method	AAT/NAP
Start	1	End	1618
GI	6759447	Score	930
Exons	1..97, 209..392, 569..681, 1101..1285, 1418..1618		
GI Descrip.	(AL137189) LAX1 / AUX1-like permease [Arabidopsis thaliana]		

Seq. No.	54480	Seq. ID	OJ000322_20.0419.C7
Gene No.	114256	Strand	-
Start	1	End	2275
Name	OJ000322_20.0419.C7.o1.tc	Method	TBLASTX:Cress
Start	2	End	382
GI	none	Score	125
Exons	2..100, 3..98, 209..331, 209..382, 213..356		

Seq. No.	54480	Seq. ID	OJ000322_20.0419.C7
Gene No.	114256	Strand	-
Start	1	End	2275
Name	OJ000322_20.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	2	End	689
GI	none	Score	126
Exons	2..100, 3..98, 56..100, 198..266, 209..340, 209..394, 210..356, 367..402, 557..661, 569..682, 571..684, 571..684, 636..689		

Seq. No.	54480	Seq. ID	OJ000322_20.0419.C7
Gene No.	114256	Strand	-
Start	1	End	2275
Name	OJ000322_20.0419.C7.o1.ts	Method	TBLASTX:Soybean
Start	2	End	373
GI	none	Score	103
Exons	2..100, 3..98, 198..356, 209..373		

Seq. No.	54480	Seq. ID	OJ000322_20.0419.C7
Gene No.	114256	Strand	-
Start	1	End	2275
Name	OJ000322_20.0419.C7.o1.gs	Method	GENSCAN
Start	8	End	1618
GI	none	Score	.99
Exons	8..97, 209..392, 569..681, 1101..1190, 1418..1618		

Seq. No.	54480	Seq. ID	OJ000322_20.0419.C7
Gene No.	114256	Strand	-
Start	1	End	2275
Name	OJ000322_20.0419.C7.o2.ts	Method	TBLASTX:Soybean
Start	640	End	1493
GI	none	Score	62
Exons	640..684, 641..682, 1101..1154, 1101..1151, 1154..1288, 1164..1286, 1400..1489, 1416..1493		

Seq. No.	54480	Seq. ID	OJ000322_20.0419.C7
Gene No.	114256	Strand	-
Start	1	End	2275
Name	OJ000322_20.0419.C7.o2.tc	Method	TBLASTX:Cress
Start	1098	End	1492
GI	none	Score	124
Exons	1098..1151, 1154..1288, 1155..1286, 1400..1492, 1401..1475		

Seq. No.	54480	Seq. ID	OJ000322_20.0419.C7
Gene No.	114256	Strand	-
Start	1	End	2275
Name	OJ000322_20.0419.C7.o1.gp	Method	AAT/GAP
Start	1169	End	2275
GI	34587_1.R1084	Score	1520
Exons	1169..1285, 1418..1648, 1798..2275		
GI Descrip.	'5881784/emb|CAB55758.1| 2.0e-26 (AJ249442) putative AUX1-like permease [Arabidopsis thaliana]'		

Seq. No.	54480	Seq. ID	OJ000322_20.0419.C7
Gene No.	114256	Strand	-
Start	1	End	2275
Name	OJ000322_20.0419.C7.o2.tm	Method	TBLASTX:Maize
Start	1191	End	1627
GI	none	Score	137
Exons	1191..1286, 1193..1288, 1193..1288, 1400..1492, 1415..1474, 1416..1493, 1538..1627		

Seq. No.	54481	Seq. ID	OJ000322_20.0419.C8
Gene No.	114257	Strand	+
Start	396	End	919
Name	OJ000322_20.0419.C8.o1.gs	Method	GENSCAN
Start	396	End	919
GI	none	Score	.57
Exons	396..466, 723..919		

Seq. No.	54482	Seq. ID	OJ000322_20.0419.C10
Gene No.	114258	Strand	+
Start	59	End	143
Name	OJ000322_20.0419.C10.o1.gs	Method	GENSCAN
Start	59	End	143
GI	none	Score	.57
Exons	59..143		

Seq. No.	54483	Seq. ID	OJ000322_20.0419.C11
Gene No.	114259	Strand	+
Start	649	End	2621
Name	OJ000322_20.0419.C11.o1.gs	Method	GENSCAN
Start	649	End	2621
GI	none	Score	.5
Exons	649..690, 2283..2621		

Seq. No.	54484	Seq. ID	OJ000322_20.0419.C12
Gene No.	114260	Strand	+
Start	2323	End	3075
Name	OJ000322_20.0419.C12.o1.gs	Method	GENSCAN
Start	2323	End	3075
GI	none	Score	.5
Exons	2323..2391, 2397..2499, 2673..2766, 2913..3024, 3055..3075		

Seq. No.	54484	Seq. ID	OJ000322_20.0419.C12
Gene No.	114261	Strand	-
Start	3592	End	4557
Name	OJ000322_20.0419.C12.o2.gs	Method	GENSCAN
Start	3592	End	4557
GI	none	Score	.99

Exons	3592..3905, 4503..4557		
Seq. No.	54485	Seq. ID	OJ000322_20.0419.C13
Gene No.	114262	Strand	+
Start	476	End	814
Name	OJ000322_20.0419.C13.o1.gs	Method	GENSCAN
Start	476	End	814
GI	none	Score	.96
Exons	476..814		
Seq. No.	54486	Seq. ID	OJ000322_20.0419.C14
Gene No.	114263	Strand	-
Start	391	End	987
Name	OJ000322_20.0419.C14.o1.gs	Method	GENSCAN
Start	391	End	987
GI	none	Score	.67
Exons	391..519, 584..697, 898..987		
Seq. No.	54487	Seq. ID	OJ000322_20.0419.C15
Gene No.	114264	Strand	+
Start	36	End	483
Name	OJ000322_20.0419.C15.o1.gs	Method	GENSCAN
Start	36	End	483
GI	none	Score	.64
Exons	36..160, 327..483		
Seq. No.	54487	Seq. ID	OJ000322_20.0419.C15
Gene No.	114265	Strand	+
Start	2027	End	7566
Name	OJ000322_20.0419.C15.o1.np	Method	AAT/NAP
Start	1986	End	6503
GI	3860251	Score	1949
Exons	1986..2615, 2703..2873, 2999..3102, 3913..4048, 4140..4190, 4296..4583, 4881..5115, 5222..5508, 6253..6503		
GI Descrip.	(AC005824) putative membrane transporter [Arabidopsis thaliana]		
Seq. No.	54487	Seq. ID	OJ000322_20.0419.C15
Gene No.	114265	Strand	+
Start	2027	End	7566
Name	OJ000322_20.0419.C15.o2.gs	Method	GENSCAN
Start	2027	End	7566
GI	none	Score	.95
Exons	2027..2148, 2208..2434, 2518..2615, 3002..3102, 3913..4048, 4140..4190, 4296..4583, 4881..5115, 5222..5508, 6285..6481, 7440..7566		
Seq. No.	54487	Seq. ID	OJ000322_20.0419.C15
Gene No.	114266	Strand	-
Start	6436	End	6903
Name	OJ000322_20.0419.C15.o2.ts	Method	TBLASTX:Soybean
Start	2517	End	2825
GI	none	Score	125
Exons	2517..2633, 2534..2608, 2706..2825, 2717..2824		
Seq. No.	54487	Seq. ID	OJ000322_20.0419.C15
Gene No.	114266	Strand	-
Start	6436	End	6903

Name	OJ000322_20.0419.C15.o2.tm	Method	TBLASTX:Maize
Start	2727	End	4550
GI	none	Score	35
Exons	2727..2753, 2753..2854, 2754..2873, 2984..3103, 3007..3105, 3902..4048, 3907..4008, 4134..4199, 4140..4214, 4295..4540, 4314..4550		

Seq. No.	54487	Seq. ID	OJ000322_20.0419.C15
Gene No.	114266	Strand	-
Start	6436	End	6903
Name	OJ000322_20.0419.C15.o1.ts	Method	TBLASTX:Soybean
Start	4140	End	5430
GI	none	Score	81
Exons	4140..4211, 4295..4594, 4314..4553, 4856..5119, 4881..5120, 5215..5430, 5217..5414, 5281..5418		

Seq. No.	54487	Seq. ID	OJ000322_20.0419.C15
Gene No.	114266	Strand	-
Start	6436	End	6903
Name	OJ000322_20.0419.C15.o1.tm	Method	TBLASTX:Maize
Start	4856	End	5484
GI	none	Score	260
Exons	4856..5119, 4881..5120, 5220..5369, 5221..5367, 5368..5430, 5373..5414, 5422..5484		

Seq. No.	54487	Seq. ID	OJ000322_20.0419.C15
Gene No.	114266	Strand	-
Start	6436	End	6903
Name	OJ000322_20.0419.C15.o3.tm	Method	TBLASTX:Maize
Start	6279	End	6506
GI	none	Score	175
Exons	6279..6467, 6284..6394, 6476..6499, 6477..6506		

Seq. No.	54487	Seq. ID	OJ000322_20.0419.C15
Gene No.	114266	Strand	-
Start	6436	End	6903
Name	OJ000322_20.0419.C15.o1.gp	Method	AAT/GAP
Start	6436	End	6903
GI	uC-osflcyp132f03a1	Score	908
Exons	6436..6903		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 2.0e-27 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	54488	Seq. ID	OJ000322_20.0419.C16
Gene No.	114267	Strand	+
Start	6224	End	8410
Name	OJ000322_20.0419.C16.o2.gs	Method	GENSCAN
Start	6224	End	8410
GI	none	Score	.67
Exons	6224..6342, 6415..6529, 7592..7746, 8389..8410		

Seq. No.	54488	Seq. ID	OJ000322_20.0419.C16
Gene No.	114268	Strand	-
Start	1	End	6338
Name	OJ000322_20.0419.C16.o1.np	Method	AAT/NAP
Start	1	End	5587
GI	5852181	Score	3462

Exons	1..24, 729..1697, 2096..2315, 2461..2513, 2592..2894, 2980..3143, 3170..3320, 4180..4284, 5227..5414, 5494..5587		
GI Descrip.	(AL117265) zhb0011.1 [Oryza sativa]		
Seq. No.	54488	Seq. ID	OJ000322_20.0419.C16
Gene No.	114268	Strand	-
Start	1	End	6338
Name	OJ000322_20.0419.C16.o1.gs	Method	GENSCAN
Start	375	End	5587
GI	none	Score	.67
Exons	375..1697, 2096..2375, 2461..2894, 2980..3143, 3152..3320, 4180..4284, 5227..5414, 5494..5587		
Seq. No.	54488	Seq. ID	OJ000322_20.0419.C16
Gene No.	114268	Strand	-
Start	1	End	6338
Name	OJ000322_20.0419.C16.o1.gp	Method	AAT/GAP
Start	480	End	813
GI	701114	Score	653
Exons	480..813		
GI Descrip.	5852170/emb|AL117265.1|OST17804 2.0e-27 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804		
Seq. No.	54488	Seq. ID	OJ000322_20.0419.C16
Gene No.	114268	Strand	-
Start	1	End	6338
Name	OJ000322_20.0419.C16.o2.tm	Method	TBLASTX:Maize
Start	804	End	1337
GI	none	Score	126
Exons	804..932, 1035..1205, 1089..1205, 1094..1207, 1096..1248, 1213..1296, 1215..1337, 1303..1332		
Seq. No.	54488	Seq. ID	OJ000322_20.0419.C16
Gene No.	114268	Strand	-
Start	1	End	6338
Name	OJ000322_20.0419.C16.o2.gp	Method	AAT/GAP
Start	3877	End	6338
GI	102_6.R1084	Score	1663
Exons	3877..4284, 5227..5414, 5494..5631, 6193..6338		
GI Descrip.	'2911068/emb|CAA17530.1| 1.0e-78 (AL021960) G10-like protein [Arabidopsis thaliana]'		
Seq. No.	54488	Seq. ID	OJ000322_20.0419.C16
Gene No.	114268	Strand	-
Start	1	End	6338
Name	OJ000322_20.0419.C16.o1.tw	Method	TBLASTX:Wheat
Start	4056	End	5395
GI	none	Score	39
Exons	4056..4100, 4124..4294, 4128..4295, 4129..4287, 4136..4294, 5203..5394, 5228..5395		
Seq. No.	54488	Seq. ID	OJ000322_20.0419.C16
Gene No.	114268	Strand	-
Start	1	End	6338
Name	OJ000322_20.0419.C16.o1.ts	Method	TBLASTX:Soybean
Start	4127	End	5591
GI	none	Score	221

Exons	4127..4294, 4129..4287, 5203..5415, 5221..5409, 5228..5419, 5228..5416, 5491..5586, 5492..5587, 5495..5587, 5496..5591		
Seq. No.	54488	Seq. ID	OJ000322_20.0419.C16
Gene No.	114268	Strand	-
Start	1	End	6338
Name	OJ000322_20.0419.C16.o1.tc	Method	TBLASTX:Cress
Start	4129	End	5593
GI	none	Score	169
Exons	4129..4281, 4133..4282, 4145..4282, 5203..5313, 5228..5311, 5229..5318, 5315..5419, 5317..5415, 5486..5593, 5487..5591		
Seq. No.	54488	Seq. ID	OJ000322_20.0419.C16
Gene No.	114268	Strand	-
Start	1	End	6338
Name	OJ000322_20.0419.C16.o1.tm	Method	TBLASTX:Maize
Start	4129	End	5602
GI	none	Score	171
Exons	4129..4287, 4130..4294, 4132..4287, 4133..4294, 5203..5415, 5221..5412, 5228..5419, 5228..5416, 5483..5602, 5491..5601, 5495..5602		
Seq. No.	54489	Seq. ID	OJ000322_20.0419.C18
Gene No.	114269	Strand	+
Start	346	End	877
Name	OJ000322_20.0419.C18.o1.gs	Method	GENSCAN
Start	346	End	877
GI	none	Score	.51
Exons	346..501, 706..877		
Seq. No.	54489	Seq. ID	OJ000322_20.0419.C18
Gene No.	114270	Strand	-
Start	1	End	179
Name	OJ000322_20.0419.C18.o1.np	Method	AAT/NAP
Start	1	End	179
GI	7339699	Score	103
Exons	1..179		
GI Descrip.	(AP001539) EST C98176(C0955) corresponds to a region of the predicted gene.; Similar to Arabidopsis thaliana chromosome II BAC F13A10; putative cellular apoptosis susceptibility protein. (AC006418) [Oryza sativa]		
Seq. No.	54490	Seq. ID	OJ000322_20.0419.C19
Gene No.	114271	Strand	+
Start	1829	End	1923
Name	OJ000322_20.0419.C19.o1.np	Method	AAT/NAP
Start	1829	End	1923
GI	6630699	Score	98
Exons	1829..1923		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein [Oryza sativa]		
Seq. No.	54490	Seq. ID	OJ000322_20.0419.C19
Gene No.	114272	Strand	-
Start	966	End	1158
Name	OJ000322_20.0419.C19.o1.gs	Method	GENSCAN

Start	966	End	1158
GI	none	Score	.57
Exons	966..1158		

Seq. No.	54490	Seq. ID	OJ000322_20.0419.C19
Gene No.	114273	Strand	-
Start	1840	End	2130
Name	OJ000322_20.0419.C19.o1.gp	Method	AAT/GAP
Start	1840	End	2130
GI	LIB3479-006-Q6-K1-B11	Score	395
Exons	1840..2130		
GI Descrip.	'5734616/dbj|AP000391.1|AP000391 1.0e-110 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		

Seq. No.	54491	Seq. ID	OJ000322_20.0419.C20
Gene No.	114274	Strand	+
Start	381	End	1896
Name	OJ000322_20.0419.C20.o1.gs	Method	GENSCAN
Start	381	End	1896
GI	none	Score	.61
Exons	381..508, 1803..1896		

Seq. No.	54491	Seq. ID	OJ000322_20.0419.C20
Gene No.	114275	Strand	+
Start	3599	End	9578
Name	OJ000322_20.0419.C20.o1.gp	Method	AAT/GAP
Start	3399	End	6250
GI	60013_1.R1084	Score	829
Exons	3399..3707, 6100..6250		
GI Descrip.	'5734616/dbj|AP000391.1|AP000391 8.0e-61 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		

Seq. No.	54491	Seq. ID	OJ000322_20.0419.C20
Gene No.	114275	Strand	+
Start	3599	End	9578
Name	OJ000322_20.0419.C20.o2.gs	Method	GENSCAN
Start	3599	End	9578
GI	none	Score	.58
Exons	3599..3707, 6100..6330, 6866..6973, 7309..7404, 8330..8656, 8830..9578		

Seq. No.	54491	Seq. ID	OJ000322_20.0419.C20
Gene No.	114275	Strand	+
Start	3599	End	9578
Name	OJ000322_20.0419.C20.o1.np	Method	AAT/NAP
Start	3622	End	9575
GI	6579208	Score	1253
Exons	3622..3707, 6187..6330, 8330..8427, 8540..8741, 8845..9575		
GI Descrip.	(AC011438) T23G18.9 [Arabidopsis thaliana]		

Seq. No.	54491	Seq. ID	OJ000322_20.0419.C20
Gene No.	114276	Strand	+
Start	10065	End	12943
Name	OJ000322_20.0419.C20.o2.np	Method	AAT/NAP
Start	10017	End	12943
GI	7340662	Score	756
Exons	10017..10378, 10477..10553, 10946..11070, 11237..11356,		

11444..11510, 11671..11787, 12040..12128, 12453..12543, 12653..12779, 12869..12943

GI Descrip. (AL162506) 3-deoxy-D-manno-octulosonic acid transferase-like protein [Arabidopsis thaliana]

Seq. No.	54491	Seq. ID	OJ000322_20.0419.C20
Gene No.	114276	Strand	+
Start	10065	End	12943
Name	OJ000322_20.0419.C20.o3.gs	Method	GENSCAN
Start	10065	End	12535
GI	none	Score	.46
Exons	10065..10378, 10477..10519, 10948..11070, 11432..11510, 11650..11787, 12031..12189, 12453..12535		

Seq. No.	54491	Seq. ID	OJ000322_20.0419.C20
Gene No.	114277	Strand	-
Start	9168	End	9735
Name	OJ000322_20.0419.C20.o1.tc	Method	TBLASTX:Cress
Start	6078	End	6329
GI	none	Score	312
Exons	6078..6329, 6089..6316		

Seq. No.	54491	Seq. ID	OJ000322_20.0419.C20
Gene No.	114277	Strand	-
Start	9168	End	9735
Name	OJ000322_20.0419.C20.o1.ts	Method	TBLASTX:Soybean
Start	6078	End	9137
GI	none	Score	357
Exons	6078..6332, 6089..6331, 8328..8450, 8329..8427, 8534..8728, 8539..8727, 8829..8873, 8886..9137, 8886..9113, 8888..9127		

Seq. No.	54491	Seq. ID	OJ000322_20.0419.C20
Gene No.	114277	Strand	-
Start	9168	End	9735
Name	OJ000322_20.0419.C20.o3.tc	Method	TBLASTX:Cress
Start	8332	End	8935
GI	none	Score	117
Exons	8332..8451, 8534..8746, 8539..8751, 8829..8873, 8843..8875, 8889..8933, 8891..8935		

Seq. No.	54491	Seq. ID	OJ000322_20.0419.C20
Gene No.	114277	Strand	-
Start	9168	End	9735
Name	OJ000322_20.0419.C20.o2.tm	Method	TBLASTX:Maize
Start	8844	End	9422
GI	none	Score	168
Exons	8844..9107, 9135..9422		

Seq. No.	54491	Seq. ID	OJ000322_20.0419.C20
Gene No.	114277	Strand	-
Start	9168	End	9735
Name	OJ000322_20.0419.C20.o2.gp	Method	AAT/GAP
Start	9168	End	9735
GI	35111_1.R1084	Score	1060
Exons	9168..9735		

GI Descrip. '3021344/emb|CAA06244| 1.0e-12 (AJ004959) hypothetical protein [Cicer arietinum]'

Seq. No.	54491	Seq. ID	OJ000322_20.0419.C20
Gene No.	114277	Strand	-
Start	9168	End	9735
Name	OJ000322_20.0419.C20.o2.ts	Method	TBLASTX:Soybean
Start	9186	End	9593
GI	none	Score	424
Exons	9186..9593, 9188..9577		

Seq. No.	54491	Seq. ID	OJ000322_20.0419.C20
Gene No.	114277	Strand	-
Start	9168	End	9735
Name	OJ000322_20.0419.C20.o2.tc	Method	TBLASTX:Cress
Start	9219	End	9572
GI	none	Score	273
Exons	9219..9572, 9281..9445		

Seq. No.	54491	Seq. ID	OJ000322_20.0419.C20
Gene No.	114278	Strand	
Start	12449	End	12918
Name	OJ000322_20.0419.C20.o1.tm	Method	TBLASTX:Maize
Start	12449	End	12918
GI	none	Score	86
Exons	12449..12544, 12456..12578, 12458..12538, 12478..12543, 12623..12736, 12631..12774, 12633..12782, 12636..12773, 12852..12917, 12860..12916, 12877..12918		

Seq. No.	54492	Seq. ID	OJ000322_20.0419.C21
Gene No.	114279	Strand	+
Start	3219	End	4461
Name	OJ000322_20.0419.C21.o1.np	Method	AAT/NAP
Start	3219	End	4455
GI	7447521	Score	517
Exons	3219..3577, 3660..3693, 3971..4455		
GI Descrip.	hypothetical protein F26B6.6 - Arabidopsis thaliana gi|3242704|gb|AAC23756.1| (AC003040) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	54492	Seq. ID	OJ000322_20.0419.C21
Gene No.	114279	Strand	+
Start	3219	End	4461
Name	OJ000322_20.0419.C21.o1.gs	Method	GENSCAN
Start	3413	End	4461
GI	none	Score	.86
Exons	3413..3577, 3660..3727, 4008..4461		

Seq. No.	54492	Seq. ID	OJ000322_20.0419.C21
Gene No.	114280	Strand	-
Start	4569	End	4969
Name	OJ000322_20.0419.C21.o1.gp	Method	AAT/GAP
Start	4569	End	4969
GI	none	Score	798
Exons	4569..4969		

Seq. No.	54492	Seq. ID	OJ000322_20.0419.C21
Gene No.	114281	Strand	-
Start	5913	End	6918

Name	OJ000322_20.0419.C21.o1.tc	Method	TBLASTX:Cress
Start	3353	End	3580
GI	none	Score	187
Exons	3353..3580, 3382..3450, 3505..3564		

Seq. No.	54492	Seq. ID	OJ000322_20.0419.C21
Gene No.	114281	Strand	-
Start	5913	End	6918
Name	OJ000322_20.0419.C21.o1.tm	Method	TBLASTX:Maize
Start	3353	End	4489
GI	none	Score	267
Exons	3353..3577, 3376..3450, 3499..3576, 3505..3579, 4006..4266, 4017..4190, 4072..4254, 4249..4455, 4258..4458, 4332..4457, 4376..4489		

Seq. No.	54492	Seq. ID	OJ000322_20.0419.C21
Gene No.	114281	Strand	-
Start	5913	End	6918
Name	OJ000322_20.0419.C21.o1.ts	Method	TBLASTX:Soybean
Start	3362	End	3701
GI	none	Score	249
Exons	3362..3580, 3379..3579, 3657..3701, 3657..3692		

Seq. No.	54492	Seq. ID	OJ000322_20.0419.C21
Gene No.	114281	Strand	-
Start	5913	End	6918
Name	OJ000322_20.0419.C21.o2.ts	Method	TBLASTX:Soybean
Start	4009	End	4460
GI	none	Score	54
Exons	4009..4047, 4044..4187, 4045..4275, 4240..4452, 4269..4460		

Seq. No.	54492	Seq. ID	OJ000322_20.0419.C21
Gene No.	114281	Strand	-
Start	5913	End	6918
Name	OJ000322_20.0419.C21.o2.gs	Method	GENSCAN
Start	5913	End	6918
GI	none	Score	.45
Exons	5913..5980, 6840..6918		

Seq. No.	54493	Seq. ID	OJ000322_20.0419.C22
Gene No.	114282	Strand	+
Start	1	End	1729
Name	OJ000322_20.0419.C22.o1.np	Method	AAT/NAP
Start	1	End	1729
GI	6759450	Score	683
Exons	1..275, 592..1071, 1704..1729		
GI Descrip.	(AL137189) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	54493	Seq. ID	OJ000322_20.0419.C22
Gene No.	114282	Strand	+
Start	1	End	1729
Name	OJ000322_20.0419.C22.o1.gs	Method	GENSCAN
Start	18	End	1390
GI	none	Score	.68
Exons	18..275, 592..1062, 1364..1390		

Seq. No.	54494	Seq. ID	OJ000322_20.0419.C23

Gene No.	114283	Strand	-
Start	287	End	5707
Name	OJ000322_20.0419.C23.o1.gs	Method	GENSCAN
Start	287	End	5707
GI	none	Score	.72
Exons	287..366, 1818..1972, 2075..2170, 4791..4882, 5484..5707		

Seq. No.	54494	Seq. ID	OJ000322_20.0419.C23
Gene No.	114283	Strand	-
Start	287	End	5707
Name	OJ000322_20.0419.C23.o1.np	Method	AAT/NAP
Start	3042	End	3211
GI	7340868	Score	105
Exons	3042..3211		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	54495	Seq. ID	OJ000322_20.0419.C24
Gene No.	114284	Strand	+
Start	1	End	5117
Name	OJ000322_20.0419.C24.o1.np	Method	AAT/NAP
Start	1	End	5117
GI	7446175	Score	284
Exons	1..24, 2274..2402, 3022..3198, 5055..5117		
GI Descrip.	transforming protein myb homolog F28A21.180 - Arabidopsis thaliana gi|4539396|emb|CAB37462.1| (AL035526) myb-like protein [Arabidopsis thaliana] gi|5823339|gb|AAD53108.1|AF176003_1 (AF176003) putative transcription factor [Arabidopsis thaliana] gi|7268671|emb|CAB78879.1| (AL161549) myb-like protein [Arabidopsis thaliana]		

Seq. No.	54495	Seq. ID	OJ000322_20.0419.C24
Gene No.	114284	Strand	+
Start	1	End	5117
Name	OJ000322_20.0419.C24.o1.gp	Method	AAT/GAP
Start	1750	End	2037
GI	1631475	Score	519
Exons	1750..2037		

Seq. No.	54495	Seq. ID	OJ000322_20.0419.C24
Gene No.	114284	Strand	+
Start	1	End	5117
Name	OJ000322_20.0419.C24.o1.gs	Method	GENSCAN
Start	1787	End	4400
GI	none	Score	.57
Exons	1787..2188, 2276..2402, 3022..3863, 4316..4400		

Seq. No.	54495	Seq. ID	OJ000322_20.0419.C24
Gene No.	114285	Strand	+
Start	16678	End	18876
Name	OJ000322_20.0419.C24.o5.gs	Method	GENSCAN
Start	16678	End	18876
GI	none	Score	.59
Exons	16678..16686, 17277..17459, 17652..17808, 17839..18054, 18109..18332, 18413..18482, 18540..18669, 18770..18876		

Seq. No.	54495	Seq. ID	OJ000322_20.0419.C24
Gene No.	114285	Strand	+

Start	16678	End	18876
Name	OJ000322_20.0419.C24.o4.np	Method	AAT/NAP
Start	17545	End	18876
GI	3582344	Score	423
Exons	17545..17837, 18005..18030, 18109..18332, 18413..18487, 18563..18669, 18767..18876		
GI Descrip.	(AC005496) putative CDC6 protein [Arabidopsis thaliana]		

Seq. No.	54495	Seq. ID	OJ000322_20.0419.C24
Gene No.	114286	Strand	-
Start	7811	End	9387
Name	OJ000322_20.0419.C24.o2.gp	Method	AAT/GAP
Start	7484	End	8393
GI	18475_1.R1084	Score	1768
Exons	7484..8393		
GI Descrip.	'2088653 7.0e-42 (AF002109) Hs1pro-1 related protein isolog [Arabidopsis thaliana]'		

Seq. No.	54495	Seq. ID	OJ000322_20.0419.C24
Gene No.	114286	Strand	-
Start	7811	End	9387
Name	OJ000322_20.0419.C24.o1.tm	Method	TBLASTX:Maize
Start	7791	End	8561
GI	none	Score	481
Exons	7791..8285, 7856..8284, 8218..8262, 8235..8306, 8258..8548, 8360..8503, 8385..8561, 8422..8523, 8427..8549		

Seq. No.	54495	Seq. ID	OJ000322_20.0419.C24
Gene No.	114286	Strand	-
Start	7811	End	9387
Name	OJ000322_20.0419.C24.o3.gs	Method	GENSCAN
Start	7811	End	9235
GI	none	Score	1
Exons	7811..9235		

Seq. No.	54495	Seq. ID	OJ000322_20.0419.C24
Gene No.	114286	Strand	-
Start	7811	End	9387
Name	OJ000322_20.0419.C24.o1.tw	Method	TBLASTX:Wheat
Start	7847	End	8141
GI	none	Score	244
Exons	7847..8137, 7850..8140, 7860..8141		

Seq. No.	54495	Seq. ID	OJ000322_20.0419.C24
Gene No.	114286	Strand	-
Start	7811	End	9387
Name	OJ000322_20.0419.C24.o2.np	Method	AAT/NAP
Start	7850	End	9262
GI	2088653	Score	918
Exons	7850..8752, 8805..9262		
GI Descrip.	(AF002109) putative nematode-resistance protein [Arabidopsis thaliana]		

Seq. No.	54495	Seq. ID	OJ000322_20.0419.C24
Gene No.	114286	Strand	-
Start	7811	End	9387
Name	OJ000322_20.0419.C24.o1.tc	Method	TBLASTX:Cress

Start	7862	End	8404
GI	none	Score	58
Exons	7862..7951, 7863..7928, 7985..8095, 7986..8057, 8123..8257, 8127..8258, 8264..8404		

Seq. No.	54495	Seq. ID	OJ000322_20.0419.C24
Gene No.	114286	Strand	-
Start	7811	End	9387
Name	OJ000322_20.0419.C24.o1.ts	Method	TBLASTX:Soybean
Start	7862	End	9106
GI	none	Score	52
Exons	7862..8011, 7875..7952, 7962..8072, 8102..8521, 8127..8276, 8519..8752, 8574..8753, 8888..9094, 8945..9106		

Seq. No.	54495	Seq. ID	OJ000322_20.0419.C24
Gene No.	114286	Strand	-
Start	7811	End	9387
Name	OJ000322_20.0419.C24.o3.tm	Method	TBLASTX:Maize
Start	8777	End	9387
GI	none	Score	102
Exons	8777..8878, 8778..8858, 8897..9094, 8945..9139, 8961..9140, 9176..9241, 9179..9235, 9183..9242, 9337..9387		

Seq. No.	54495	Seq. ID	OJ000322_20.0419.C24
Gene No.	114286	Strand	-
Start	7811	End	9387
Name	OJ000322_20.0419.C24.o3.gp	Method	AAT/GAP
Start	8808	End	9348
GI	none	Score	1010
Exons	8808..9348		

Seq. No.	54495	Seq. ID	OJ000322_20.0419.C24
Gene No.	114287	Strand	
Start	16263	End	16632
Name	OJ000322_20.0419.C24.o4.tm	Method	TBLASTX:Maize
Start	16263	End	16632
GI	none	Score	86
Exons	16263..16415, 16263..16442, 16264..16416, 16440..16628, 16459..16632		

Seq. No.	54495	Seq. ID	OJ000322_20.0419.C24
Gene No.	114288	Strand	
Start	17921	End	18491
Name	OJ000322_20.0419.C24.o2.tm	Method	TBLASTX:Maize
Start	17921	End	18491
GI	none	Score	138
Exons	17921..18028, 17934..18029, 17943..18029, 18085..18282, 18107..18295, 18108..18293, 18108..18305, 18398..18490, 18399..18464, 18410..18490, 18411..18491		

Seq. No.	54496	Seq. ID	OJ000322_20.0419.C26
Gene No.	114289	Strand	+
Start	763	End	1028
Name	OJ000322_20.0419.C26.o1.gs	Method	GENSCAN
Start	763	End	1028
GI	none	Score	.99
Exons	763..892, 981..1028		

Seq. No.	54497	Seq. ID	OJ000322_20.0419.C27
Gene No.	114290	Strand	+
Start	239	End	690
Name	OJ000322_20.0419.C27.o1.gs	Method	GENSCAN
Start	239	End	690
GI	none	Score	.57
Exons	239..690		

Seq. No.	54498	Seq. ID	OJ000322_21.0419.C4
Gene No.	114291	Strand	+
Start	1	End	3038
Name	OJ000322_21.0419.C4.o1.np	Method	AAT/NAP
Start	1	End	3017
GI	4680203	Score	2909
Exons	1..1379, 1533..1763, 2040..3017		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	54498	Seq. ID	OJ000322_21.0419.C4
Gene No.	114291	Strand	+
Start	1	End	3038
Name	OJ000322_21.0419.C4.o1.gs	Method	GENSCAN
Start	223	End	3038
GI	none	Score	.82
Exons	223..519, 655..1312, 1444..2304, 2330..2376, 2448..3038		

Seq. No.	54498	Seq. ID	OJ000322_21.0419.C4
Gene No.	114292	Strand	+
Start	4130	End	8202
Name	OJ000322_21.0419.C4.o4.tw	Method	TBLASTX:Wheat
Start	51	End	409
GI	none	Score	80
Exons	51..143, 58..165, 148..399, 156..398, 159..401, 167..409		

Seq. No.	54498	Seq. ID	OJ000322_21.0419.C4
Gene No.	114292	Strand	+
Start	4130	End	8202
Name	OJ000322_21.0419.C4.o1.ts	Method	TBLASTX:Soybean
Start	330	End	759
GI	none	Score	103
Exons	330..413, 331..405, 463..759, 495..746		

Seq. No.	54498	Seq. ID	OJ000322_21.0419.C4
Gene No.	114292	Strand	+
Start	4130	End	8202
Name	OJ000322_21.0419.C4.o2.tc	Method	TBLASTX:Cress
Start	477	End	840
GI	none	Score	287
Exons	477..644, 499..840, 693..821		

Seq. No.	54498	Seq. ID	OJ000322_21.0419.C4
Gene No.	114292	Strand	+
Start	4130	End	8202
Name	OJ000322_21.0419.C4.o2.tw	Method	TBLASTX:Wheat
Start	628	End	1097
GI	none	Score	64
Exons	628..684, 636..680, 681..782, 682..786, 790..888, 795..887,		

798..890, 861..1097, 868..1092, 978..1097

Seq. No.	54498	Seq. ID	OJ000322_21.0419.C4
Gene No.	114292	Strand	+
Start	4130	End	8202
Name	OJ000322_21.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	673	End	1131
GI	none	Score	234
Exons	673..927, 685..927, 937..1131		

Seq. No.	54498	Seq. ID	OJ000322_21.0419.C4
Gene No.	114292	Strand	+
Start	4130	End	8202
Name	OJ000322_21.0419.C4.o2.ts	Method	TBLASTX:Soybean
Start	961	End	1203
GI	none	Score	212
Exons	961..1203, 1047..1166		

Seq. No.	54498	Seq. ID	OJ000322_21.0419.C4
Gene No.	114292	Strand	+
Start	4130	End	8202
Name	OJ000322_21.0419.C4.o3.tw	Method	TBLASTX:Wheat
Start	1236	End	1640
GI	none	Score	80
Exons	1236..1283, 1237..1299, 1305..1346, 1309..1347, 1329..1526, 1330..1527, 1335..1526, 1554..1634, 1556..1639, 1560..1640		

Seq. No.	54498	Seq. ID	OJ000322_21.0419.C4
Gene No.	114292	Strand	+
Start	4130	End	8202
Name	OJ000322_21.0419.C4.o1.tw	Method	TBLASTX:Wheat
Start	1641	End	2963
GI	none	Score	943
Exons	1641..1826, 1647..2564, 1648..2070, 1715..2548, 2539..2604, 2559..2603, 2581..2604, 2606..2701, 2610..2669, 2648..2788, 2649..2777, 2679..2795, 2717..2797, 2801..2854, 2802..2870, 2871..2963, 2884..2946, 2897..2962		

Seq. No.	54498	Seq. ID	OJ000322_21.0419.C4
Gene No.	114292	Strand	+
Start	4130	End	8202
Name	OJ000322_21.0419.C4.o2.tm	Method	TBLASTX:Maize
Start	1698	End	2003
GI	none	Score	299
Exons	1698..2003, 1703..1975		

Seq. No.	54498	Seq. ID	OJ000322_21.0419.C4
Gene No.	114292	Strand	+
Start	4130	End	8202
Name	OJ000322_21.0419.C4.o1.tc	Method	TBLASTX:Cress
Start	1934	End	2382
GI	none	Score	151
Exons	1934..2371, 1934..2377, 1935..2381, 2131..2382, 2238..2381		

Seq. No.	54498	Seq. ID	OJ000322_21.0419.C4
Gene No.	114292	Strand	+
Start	4130	End	8202

Name	OJ000322_21.0419.C4.o2.gs	Method	GENSCAN
Start	4130	End	8176
GI	none	Score	.51
Exons	4130..4527, 5000..5066, 5985..6203, 6440..6907, 7025..7203, 7228..7387, 7458..7620, 7977..8176		

Seq. No.	54498	Seq. ID	OJ000322_21.0419.C4
Gene No.	114292	Strand	+
Start	4130	End	8202
Name	OJ000322_21.0419.C4.o2.np	Method	AAT/NAP
Start	5970	End	8202
GI	4680204	Score	780
Exons	5970..7387, 7479..7880, 8021..8202		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	54498	Seq. ID	OJ000322_21.0419.C4
Gene No.	114292	Strand	+
Start	4130	End	8202
Name	OJ000322_21.0419.C4.o5.tw	Method	TBLASTX:Wheat
Start	6596	End	6997
GI	none	Score	212
Exons	6596..6832, 6596..6790, 6697..6837, 6827..6997, 6880..6996, 6893..6997		

Seq. No.	54498	Seq. ID	OJ000322_21.0419.C4
Gene No.	114292	Strand	+
Start	4130	End	8202
Name	OJ000322_21.0419.C4.o6.tw	Method	TBLASTX:Wheat
Start	6998	End	7691
GI	none	Score	69
Exons	6998..7078, 7100..7261, 7316..7390, 7473..7691		

Seq. No.	54499	Seq. ID	OJ000322_21.0419.C5
Gene No.	114293	Strand	-
Start	957	End	1173
Name	OJ000322_21.0419.C5.o1.np	Method	AAT/NAP
Start	589	End	1173
GI	626375	Score	56
Exons	589..648, 705..825, 1020..1173		
GI Descrip.	probable membrane protein YIL100c-a - yeast (Saccharomyces cerevisiae) gi|558706|emb|CAA86280| (Z38125) orf, len: 112, CAI: 0.07, overlapped by orf 36949..36826 qv [Saccharomyces cerevisiae]		

Seq. No.	54499	Seq. ID	OJ000322_21.0419.C5
Gene No.	114293	Strand	-
Start	957	End	1173
Name	OJ000322_21.0419.C5.o1.gs	Method	GENSCAN
Start	957	End	1094
GI	none	Score	.74
Exons	957..1094		

Seq. No.	54500	Seq. ID	OJ000322_21.0419.C6
Gene No.	114294	Strand	-
Start	1	End	1148
Name	OJ000322_21.0419.C6.o1.gp	Method	AAT/GAP
Start	1	End	1148

GI	250_1.R1084	Score	2048
Exons	1..868, 969..1148		
GI Descrip.	'2924247/emb|CAA69105| 1.0e-143 (Y07782) expansin [Oryza sativa]'		

Seq. No.	54500	Seq. ID	OJ000322_21.0419.C6
Gene No.	114294	Strand	-
Start	1	End	1148
Name	OJ000322_21.0419.C6.o1.gs	Method	GENSCAN
Start	236	End	1122
GI	none	Score	.49
Exons	236..591, 602..868, 969..1122		

Seq. No.	54500	Seq. ID	OJ000322_21.0419.C6
Gene No.	114294	Strand	-
Start	1	End	1148
Name	OJ000322_21.0419.C6.o1.np	Method	AAT/NAP
Start	243	End	1122
GI	7489469	Score	1332
Exons	243..868, 969..1122		
GI Descrip.	expansin - rice gi|2924247|emb|CAA69105.1| (Y07782) expansin [Oryza sativa]		

Seq. No.	54500	Seq. ID	OJ000322_21.0419.C6
Gene No.	114295	Strand	-
Start	1374	End	1556
Name	OJ000322_21.0419.C6.o1.tm	Method	TBLASTX:Maize
Start	240	End	1119
GI	none	Score	83
Exons	240..320, 241..318, 319..348, 321..476, 321..473, 335..475, 464..604, 475..606, 475..606, 516..566, 606..635, 606..854, 607..870, 960..986, 967..1077, 967..1119, 968..1078		

Seq. No.	54500	Seq. ID	OJ000322_21.0419.C6
Gene No.	114295	Strand	-
Start	1374	End	1556
Name	OJ000322_21.0419.C6.o1.ts	Method	TBLASTX:Soybean
Start	252	End	1113
GI	none	Score	44
Exons	252..320, 268..300, 318..470, 327..437, 335..475, 475..609, 482..547, 609..710, 610..699, 748..870, 750..854, 967..1113, 968..1027		

Seq. No.	54500	Seq. ID	OJ000322_21.0419.C6
Gene No.	114295	Strand	-
Start	1374	End	1556
Name	OJ000322_21.0419.C6.o1.tc	Method	TBLASTX:Cress
Start	264	End	1038
GI	none	Score	99
Exons	264..323, 312..473, 335..475, 464..550, 475..606, 609..710, 610..702, 748..870, 750..854, 967..1038, 968..1027		

Seq. No.	54500	Seq. ID	OJ000322_21.0419.C6
Gene No.	114295	Strand	-
Start	1374	End	1556
Name	OJ000322_21.0419.C6.o1.tw	Method	TBLASTX:Wheat
Start	375	End	689

GI	none	Score	81
Exons	375..473, 377..475, 378..473, 607..651	475..603, 480..563, 606..689,	

Seq. No.	54500	Seq. ID	OJ000322_21.0419.C6
Gene No.	114295	Strand	-
Start	1374	End	1556
Name	OJ000322_21.0419.C6.o2.gs	Method	GENSCAN
Start	1374	End	1556
GI	none	Score	.45
Exons	1374..1556		

Seq. No.	54501	Seq. ID	OJ000322_21.0419.C8
Gene No.	114296	Strand	-
Start	212	End	1057
Name	OJ000322_21.0419.C8.o1.gs	Method	GENSCAN
Start	212	End	1057
GI	none	Score	.93
Exons	212..1057		

Seq. No.	54501	Seq. ID	OJ000322_21.0419.C8
Gene No.	114296	Strand	-
Start	212	End	1057
Name	OJ000322_21.0419.C8.o1.np	Method	AAT/NAP
Start	262	End	1057
GI	4512231	Score	1251
Exons	262..1057		
GI Descrip.	(AB014741) ORF0 protein [Oryza sativa]		

Seq. No.	54502	Seq. ID	OJ000322_21.0419.C9
Gene No.	114297	Strand	+
Start	71	End	1990
Name	OJ000322_21.0419.C9.o1.np	Method	AAT/NAP
Start	71	End	1990
GI	7340909	Score	67
Exons	71..95, 1317..1658, 1739..1796, 1858..1990		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	54503	Seq. ID	OJ000322_21.0419.C10
Gene No.	114298	Strand	+
Start	499	End	707
Name	OJ000322_21.0419.C10.o1.gs	Method	GENSCAN
Start	499	End	707
GI	none	Score	.98
Exons	499..707		

Seq. No.	54504	Seq. ID	OJ000322_21.0419.C11
Gene No.	114299	Strand	+
Start	327	End	469
Name	OJ000322_21.0419.C11.o1.gs	Method	GENSCAN
Start	327	End	469
GI	none	Score	.46
Exons	327..469		

Seq. No.	54505	Seq. ID	OJ000322_21.0419.C12
Gene No.	114300	Strand	+
Start	1622	End	2194

Name	OJ000322_21.0419.C12.o1.gs	Method	GENSCAN
Start	1622	End	2194
GI	none	Score	.94
Exons	1622..1691, 1774..1884, 1977..2194		

Seq. No.	54505	Seq. ID	OJ000322_21.0419.C12
Gene No.	114301	Strand	-
Start	1809	End	8078
Name	OJ000322_21.0419.C12.o1.np	Method	AAT/NAP
Start	1809	End	7633
GI	5917664	Score	249
Exons	1809..2164, 4084..4133, 4643..4768, 4988..5292, 7549..7633		
GI Descrip.	(AF159296) extensin-like protein [Lycopersicon esculentum]		

Seq. No.	54505	Seq. ID	OJ000322_21.0419.C12
Gene No.	114301	Strand	-
Start	1809	End	8078
Name	OJ000322_21.0419.C12.o2.gs	Method	GENSCAN
Start	3466	End	8078
GI	none	Score	.49
Exons	3466..3497, 3796..3904, 3997..4082, 4084..4201, 4296..4589, 4627..4977, 5156..5211, 5568..5645, 7483..7698, 7769..7935, 8005..8078		

Seq. No.	54505	Seq. ID	OJ000322_21.0419.C12
Gene No.	114302	Strand	-
Start	8240	End	8446
Name	OJ000322_21.0419.C12.o1.gp	Method	AAT/GAP
Start	8240	End	8446
GI	11_1.R1084	Score	284
Exons	8240..8446		
GI Descrip.	'6041757/gb|AC011806.1|AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence'		

Seq. No.	54505	Seq. ID	OJ000322_21.0419.C12
Gene No.	114303	Strand	-
Start	8982	End	10629
Name	OJ000322_21.0419.C12.o3.gs	Method	GENSCAN
Start	8982	End	10411
GI	none	Score	.52
Exons	8982..9353, 9427..9765, 9855..9942, 10029..10411		

Seq. No.	54505	Seq. ID	OJ000322_21.0419.C12
Gene No.	114303	Strand	-
Start	8982	End	10629
Name	OJ000322_21.0419.C12.o1.tm	Method	TBLASTX:Maize
Start	9488	End	10081
GI	none	Score	63
Exons	9488..9559, 9490..9564, 9559..9756, 9566..9718, 9581..9757, 9861..9950, 9862..9906, 9864..9938, 10028..10081, 10032..10079, 10034..10081		

Seq. No.	54505	Seq. ID	OJ000322_21.0419.C12
Gene No.	114303	Strand	-
Start	8982	End	10629
Name	OJ000322_21.0419.C12.o2.tm	Method	TBLASTX:Maize

Start	10135	End	10442
GI	none	Score	165
Exons	10135..10314, 10136..10441, 10181..10438, 10185..10442		

Seq. No.	54505	Seq. ID	OJ000322_21.0419.C12
Gene No.	114303	Strand	-
Start	8982	End	10629
Name	OJ000322_21.0419.C12.o2.np	Method	AAT/NAP
Start	10202	End	10629
GI	5911167	Score	418
Exons	10202..10629		
GI Descrip.	(AF136221) putative transposase protein [Zea mays]		

Seq. No.	54505	Seq. ID	OJ000322_21.0419.C12
Gene No.	114303	Strand	-
Start	8982	End	10629
Name	OJ000322_21.0419.C12.o1.tw	Method	TBLASTX:Wheat
Start	10244	End	10629
GI	none	Score	73
Exons	10244..10486, 10365..10451, 10423..10629		

Seq. No.	54505	Seq. ID	OJ000322_21.0419.C12
Gene No.	114303	Strand	-
Start	8982	End	10629
Name	OJ000322_21.0419.C12.o3.tm	Method	TBLASTX:Maize
Start	10468	End	10629
GI	none	Score	141
Exons	10468..10629, 10475..10627		

Seq. No.	54506	Seq. ID	OJ000322_21.0419.C13
Gene No.	114304	Strand	+
Start	259	End	1492
Name	OJ000322_21.0419.C13.o1.gs	Method	GENSCAN
Start	259	End	1492
GI	none	Score	.53
Exons	259..401, 711..799, 1233..1492		

Seq. No.	54506	Seq. ID	OJ000322_21.0419.C13
Gene No.	114305	Strand	-
Start	2463	End	3255
Name	OJ000322_21.0419.C13.o1.gp	Method	AAT/GAP
Start	1812	End	2380
GI	4879016	Score	832
Exons	1812..2380		
GI Descrip.	6041757/gb|AC011806.1|AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence		

Seq. No.	54506	Seq. ID	OJ000322_21.0419.C13
Gene No.	114305	Strand	-
Start	2463	End	3255
Name	OJ000322_21.0419.C13.o2.gs	Method	GENSCAN
Start	2463	End	3255
GI	none	Score	.5
Exons	2463..2624, 2826..3049, 3084..3255		

Seq. No.	54507	Seq. ID	OJ000322_21.0419.C14

Gene No.	114306	Strand	-
Start	554	End	732
Name	OJ000322_21.0419.C14.o1.gs	Method	GENSCAN
Start	554	End	732
GI	none	Score	.99
Exons	554..732		

Seq. No.	54508	Seq. ID	OJ000322_21.0419.C16
Gene No.	114307	Strand	+
Start	934	End	1233
Name	OJ000322_21.0419.C16.o1.gs	Method	GENSCAN
Start	934	End	1233
GI	none	Score	.81
Exons	934..1233		

Seq. No.	54508	Seq. ID	OJ000322_21.0419.C16
Gene No.	114308	Strand	+
Start	2973	End	9517
Name	OJ000322_21.0419.C16.o2.gs	Method	GENSCAN
Start	2973	End	9517
GI	none	Score	.65
Exons	2973..3167, 3178..3399, 3415..3750, 4238..4685, 4736..4819, 5004..5862, 5918..6116, 6122..6191, 6378..7268, 7290..7957, 7991..9517		

Seq. No.	54508	Seq. ID	OJ000322_21.0419.C16
Gene No.	114308	Strand	+
Start	2973	End	9517
Name	OJ000322_21.0419.C16.o1.np	Method	AAT/NAP
Start	4990	End	9514
GI	4680179	Score	5322
Exons	4990..6079, 6113..9514		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	54508	Seq. ID	OJ000322_21.0419.C16
Gene No.	114309	Strand	+
Start	11581	End	11962
Name	OJ000322_21.0419.C16.o2.gp	Method	AAT/GAP
Start	11581	End	11962
GI	uC-osflcyp033a04b1	Score	647
Exons	11581..11962		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	54508	Seq. ID	OJ000322_21.0419.C16
Gene No.	114310	Strand	-
Start	1265	End	1437
Name	OJ000322_21.0419.C16.o1.gp	Method	AAT/GAP
Start	1265	End	1437
GI	LIB3433-026-P1-K1-C1	Score	258
Exons	1265..1437		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 1.0e-44 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	54508	Seq. ID	OJ000322_21.0419.C16
Gene No.	114311	Strand	-
Start	5100	End	13087

Name	OJ000322_21.0419.C16.o2.np	Method	AAT/NAP
Start	5100	End	13087
GI	5852180	Score	463
Exons	5100..5168, 7014..7193, 10255..10660, 10712..10830, 11811..11881, 13056..13087		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	54508	Seq. ID	OJ000322_21.0419.C16
Gene No.	114311	Strand	-
Start	5100	End	13087
Name	OJ000322_21.0419.C16.o9.tw	Method	TBLASTX:Wheat
Start	5177	End	5442
GI	none	Score	207
Exons	5177..5236, 5243..5440, 5245..5442		

Seq. No.	54508	Seq. ID	OJ000322_21.0419.C16
Gene No.	114311	Strand	-
Start	5100	End	13087
Name	OJ000322_21.0419.C16.o7.tw	Method	TBLASTX:Wheat
Start	5476	End	5827
GI	none	Score	270
Exons	5476..5670, 5492..5827		

Seq. No.	54508	Seq. ID	OJ000322_21.0419.C16
Gene No.	114311	Strand	-
Start	5100	End	13087
Name	OJ000322_21.0419.C16.o6.tm	Method	TBLASTX:Maize
Start	5491	End	5782
GI	none	Score	224
Exons	5491..5607, 5492..5782		

Seq. No.	54508	Seq. ID	OJ000322_21.0419.C16
Gene No.	114311	Strand	-
Start	5100	End	13087
Name	OJ000322_21.0419.C16.o8.tm	Method	TBLASTX:Maize
Start	6133	End	6459
GI	none	Score	186
Exons	6133..6273, 6134..6457, 6367..6459		

Seq. No.	54508	Seq. ID	OJ000322_21.0419.C16
Gene No.	114311	Strand	-
Start	5100	End	13087
Name	OJ000322_21.0419.C16.o8.tw	Method	TBLASTX:Wheat
Start	6139	End	6508
GI	none	Score	161
Exons	6139..6282, 6140..6349, 6394..6507, 6395..6508		

Seq. No.	54508	Seq. ID	OJ000322_21.0419.C16
Gene No.	114311	Strand	-
Start	5100	End	13087
Name	OJ000322_21.0419.C16.o4.tw	Method	TBLASTX:Wheat
Start	6673	End	7159
GI	none	Score	538
Exons	6673..7116, 6677..7159		

Seq. No.	54508	Seq. ID	OJ000322_21.0419.C16
Gene No.	114311	Strand	-

Start	5100	End	13087
Name	OJ000322_21.0419.C16.o5.tm	Method	TBLASTX:Maize
Start	6688	End	6978
GI	none	Score	320
Exons	6688..6978, 6689..6976		

Seq. No.	54508	Seq. ID	OJ000322_21.0419.C16
Gene No.	114311	Strand	-
Start	5100	End	13087
Name	OJ000322_21.0419.C16.o4.ts	Method	TBLASTX:Soybean
Start	6746	End	7027
GI	none	Score	182
Exons	6746..7027		

Seq. No.	54508	Seq. ID	OJ000322_21.0419.C16
Gene No.	114311	Strand	-
Start	5100	End	13087
Name	OJ000322_21.0419.C16.o3.tm	Method	TBLASTX:Maize
Start	7046	End	7546
GI	none	Score	165
Exons	7046..7225, 7054..7170, 7232..7546		

Seq. No.	54508	Seq. ID	OJ000322_21.0419.C16
Gene No.	114311	Strand	-
Start	5100	End	13087
Name	OJ000322_21.0419.C16.o1.ts	Method	TBLASTX:Soybean
Start	7100	End	7495
GI	none	Score	57
Exons	7100..7132, 7102..7131, 7136..7495, 7138..7170, 7204..7494		

Seq. No.	54508	Seq. ID	OJ000322_21.0419.C16
Gene No.	114311	Strand	-
Start	5100	End	13087
Name	OJ000322_21.0419.C16.o6.tw	Method	TBLASTX:Wheat
Start	7208	End	7510
GI	none	Score	362
Exons	7208..7510, 7210..7494		

Seq. No.	54508	Seq. ID	OJ000322_21.0419.C16
Gene No.	114311	Strand	-
Start	5100	End	13087
Name	OJ000322_21.0419.C16.o3.tw	Method	TBLASTX:Wheat
Start	7511	End	7936
GI	none	Score	589
Exons	7511..7936, 7543..7932, 7574..7936		

Seq. No.	54508	Seq. ID	OJ000322_21.0419.C16
Gene No.	114311	Strand	-
Start	5100	End	13087
Name	OJ000322_21.0419.C16.o3.ts	Method	TBLASTX:Soybean
Start	7517	End	7762
GI	none	Score	209
Exons	7517..7762, 7534..7761		

Seq. No.	54508	Seq. ID	OJ000322_21.0419.C16
Gene No.	114311	Strand	-
Start	5100	End	13087

Name	OJ000322_21.0419.C16.o2.tm	Method	TBLASTX:Maize
Start	7582	End	7997
GI	none	Score	471
Exons	7582..7932, 7583..7936, 7583..7945, 7923..7997		

Seq. No.	54508	Seq. ID	OJ000322_21.0419.C16
Gene No.	114311	Strand	-
Start	5100	End	13087
Name	OJ000322_21.0419.C16.o2.tw	Method	TBLASTX:Wheat
Start	7967	End	8503
GI	none	Score	648
Exons	7967..8503, 8023..8502		

Seq. No.	54508	Seq. ID	OJ000322_21.0419.C16
Gene No.	114311	Strand	-
Start	5100	End	13087
Name	OJ000322_21.0419.C16.o1.tc	Method	TBLASTX:Cress
Start	8210	End	8527
GI	none	Score	94
Exons	8210..8383, 8384..8527, 8386..8526		

Seq. No.	54508	Seq. ID	OJ000322_21.0419.C16
Gene No.	114311	Strand	-
Start	5100	End	13087
Name	OJ000322_21.0419.C16.o2.ts	Method	TBLASTX:Soybean
Start	8291	End	8551
GI	none	Score	294
Exons	8291..8551, 8296..8550		

Seq. No.	54508	Seq. ID	OJ000322_21.0419.C16
Gene No.	114311	Strand	-
Start	5100	End	13087
Name	OJ000322_21.0419.C16.o4.tm	Method	TBLASTX:Maize
Start	8349	End	8641
GI	none	Score	89
Exons	8349..8537, 8350..8637, 8351..8641		

Seq. No.	54508	Seq. ID	OJ000322_21.0419.C16
Gene No.	114311	Strand	-
Start	5100	End	13087
Name	OJ000322_21.0419.C16.o1.tw	Method	TBLASTX:Wheat
Start	8510	End	9136
GI	none	Score	680
Exons	8510..9136, 8566..9024, 8882..9133		

Seq. No.	54508	Seq. ID	OJ000322_21.0419.C16
Gene No.	114311	Strand	-
Start	5100	End	13087
Name	OJ000322_21.0419.C16.o1.tm	Method	TBLASTX:Maize
Start	8690	End	9289
GI	none	Score	231
Exons	8690..8851, 8698..8844, 8849..9289, 8854..9273		

Seq. No.	54508	Seq. ID	OJ000322_21.0419.C16
Gene No.	114311	Strand	-
Start	5100	End	13087
Name	OJ000322_21.0419.C16.o5.tw	Method	TBLASTX:Wheat

Start	9136	End	9469
GI	none	Score	379
Exons	9136..9405, 9137..9469, 9302..9448		

Seq. No.	54508	Seq. ID	OJ000322_21.0419.C16
Gene No.	114311	Strand	-
Start	5100	End	13087
Name	OJ000322_21.0419.C16.o7.tm	Method	TBLASTX:Maize
Start	9293	End	9490
GI	none	Score	190
Exons	9293..9490, 9304..9399		

Seq. No.	54508	Seq. ID	OJ000322_21.0419.C16
Gene No.	114311	Strand	-
Start	5100	End	13087
Name	OJ000322_21.0419.C16.o3.gs	Method	GENSCAN
Start	9665	End	12876
GI	none	Score	.65
Exons	9665..9672, 10255..10499, 11811..11864, 12735..12876		

Seq. No.	54509	Seq. ID	OJ000322_21.0419.C17
Gene No.	114312	Strand	+
Start	29	End	707
Name	OJ000322_21.0419.C17.o1.np	Method	AAT/NAP
Start	29	End	707
GI	7488857	Score	283
Exons	29..707		
GI Descrip.	hypothetical protein - fava bean (fragment) gi|2522230|dbj|BAA22788.1| (AB007467) retrotransposon-like gene; the first amino acid was determined to be leucine [Vicia faba]		

Seq. No.	54509	Seq. ID	OJ000322_21.0419.C17
Gene No.	114312	Strand	+
Start	29	End	707
Name	OJ000322_21.0419.C17.o1.tw	Method	TBLASTX:Wheat
Start	62	End	433
GI	none	Score	110
Exons	62..205, 248..433, 319..402		

Seq. No.	54510	Seq. ID	OJ000322_21.0419.C18
Gene No.	114313	Strand	+
Start	118	End	559
Name	OJ000322_21.0419.C18.o1.gs	Method	GENSCAN
Start	118	End	559
GI	none	Score	.77
Exons	118..182, 386..559		

Seq. No.	54511	Seq. ID	OJ000322_21.0419.C20
Gene No.	114314	Strand	-
Start	1	End	1684
Name	OJ000322_21.0419.C20.o1.np	Method	AAT/NAP
Start	1	End	1681
GI	5911167	Score	936
Exons	1..1422, 1471..1681		
GI Descrip.	(AF136221) putative transposase protein [Zea mays]		

Seq. No.	54511	Seq. ID	OJ000322_21.0419.C20

Gene No.	114314	Strand	-
Start	1	End	1684
Name	OJ000322_21.0419.C20.o2.tm	Method	TBLASTX:Maize
Start	1	End	358
GI	none	Score	95
Exons	1..63, 106..357, 107..358, 178..357		

Seq. No.	54511	Seq. ID	OJ000322_21.0419.C20
Gene No.	114314	Strand	-
Start	1	End	1684
Name	OJ000322_21.0419.C20.o2.np	Method	AAT/NAP
Start	1	End	1582
GI	4432794	Score	630
Exons	1..1582		
GI Descrip.	(AC006437) putative TNP2-like transposon protein [Arabidopsis thaliana]		

Seq. No.	54511	Seq. ID	OJ000322_21.0419.C20
Gene No.	114314	Strand	-
Start	1	End	1684
Name	OJ000322_21.0419.C20.o1.gs	Method	GENSCAN
Start	13	End	1684
GI	none	Score	.59
Exons	13..919, 1197..1684		

Seq. No.	54511	Seq. ID	OJ000322_21.0419.C20
Gene No.	114314	Strand	-
Start	1	End	1684
Name	OJ000322_21.0419.C20.o1.tw	Method	TBLASTX:Wheat
Start	472	End	780
GI	none	Score	41
Exons	472..780, 485..553, 514..657, 581..742		

Seq. No.	54511	Seq. ID	OJ000322_21.0419.C20
Gene No.	114314	Strand	-
Start	1	End	1684
Name	OJ000322_21.0419.C20.o1.tm	Method	TBLASTX:Maize
Start	514	End	978
GI	none	Score	78
Exons	514..660, 514..831, 515..823, 826..906, 839..907, 893..976, 898..978, 910..978		

Seq. No.	54511	Seq. ID	OJ000322_21.0419.C20
Gene No.	114314	Strand	-
Start	1	End	1684
Name	OJ000322_21.0419.C20.o1.tc	Method	TBLASTX:Cress
Start	559	End	906
GI	none	Score	102
Exons	559..771, 581..763, 802..906		

Seq. No.	54511	Seq. ID	OJ000322_21.0419.C20
Gene No.	114314	Strand	-
Start	1	End	1684
Name	OJ000322_21.0419.C20.o1.ts	Method	TBLASTX:Soybean
Start	637	End	1051
GI	none	Score	93
Exons	637..771, 641..730, 718..768, 802..885, 803..886, 913..1023,		

1010..1051

Seq. No.	54511	Seq. ID	OJ000322_21.0419.C20
Gene No.	114314	Strand	-
Start	1	End	1684
Name	OJ000322_21.0419.C20.o2.tw	Method	TBLASTX:Wheat
Start	787	End	1183
GI	none	Score	43
Exons	787..903, 913..1023, 929..1000, 1029..1151, 1031..1183		

Seq. No.	54512	Seq. ID	OJ000322_21.0419.C21
Gene No.	114315	Strand	+
Start	106	End	299
Name	OJ000322_21.0419.C21.o1.gs	Method	GENSCAN
Start	106	End	299
GI	none	Score	.77
Exons	106..299		

Seq. No.	54512	Seq. ID	OJ000322_21.0419.C21
Gene No.	114316	Strand	+
Start	736	End	1454
Name	OJ000322_21.0419.C21.o2.gs	Method	GENSCAN
Start	736	End	1454
GI	none	Score	.68
Exons	736..855, 1362..1454		

Seq. No.	54512	Seq. ID	OJ000322_21.0419.C21
Gene No.	114317	Strand	-
Start	4030	End	8676
Name	OJ000322_21.0419.C21.o3.gs	Method	GENSCAN
Start	4030	End	8676
GI	none	Score	.55
Exons	4030..4311, 4486..4599, 4865..4895, 5834..5960, 6677..6808, 7028..7142, 7292..7390, 8638..8676		

Seq. No.	54512	Seq. ID	OJ000322_21.0419.C21
Gene No.	114317	Strand	-
Start	4030	End	8676
Name	OJ000322_21.0419.C21.o1.tm	Method	TBLASTX:Maize
Start	5817	End	6406
GI	none	Score	128
Exons	5817..6005, 5817..6005, 5818..6006, 5822..6007, 5861..6007, 6341..6406, 6342..6404		

Seq. No.	54512	Seq. ID	OJ000322_21.0419.C21
Gene No.	114317	Strand	-
Start	4030	End	8676
Name	OJ000322_21.0419.C21.o1.np	Method	AAT/NAP
Start	5834	End	6399
GI	3757527	Score	200
Exons	5834..6003, 6341..6399		
GI Descrip.	(AC005167) 50S ribosomal protein L27 [Arabidopsis thaliana]		

Seq. No.	54512	Seq. ID	OJ000322_21.0419.C21
Gene No.	114317	Strand	-
Start	4030	End	8676
Name	OJ000322_21.0419.C21.o1.ts	Method	TBLASTX:Soybean

Start	5834	End	6406
GI	none	Score	99
Exons	5834..6007, 5851..6006, 5879..6007, 6341..6406, 6342..6401		

Seq. No.	54512	Seq. ID	OJ000322_21.0419.C21
Gene No.	114317	Strand	-
Start	4030	End	8676
Name	OJ000322_21.0419.C21.o1.tc	Method	TBLASTX:Cress
Start	5872	End	6406
GI	none	Score	76
Exons	5872..6006, 5872..6006, 5894..6010, 6341..6406		

Seq. No.	54513	Seq. ID	OJ000322_21.0419.C22
Gene No.	114318	Strand	+
Start	1	End	7423
Name	OJ000322_21.0419.C22.o1.np	Method	AAT/NAP
Start	1	End	7423
GI	5852180	Score	584
Exons	1..80, 725..772, 1755..1872, 1924..2349, 7373..7423		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	54513	Seq. ID	OJ000322_21.0419.C22
Gene No.	114318	Strand	+
Start	1	End	7423
Name	OJ000322_21.0419.C22.o4.gs	Method	GENSCAN
Start	6737	End	7264
GI	none	Score	.81
Exons	6737..7264		

Seq. No.	54513	Seq. ID	OJ000322_21.0419.C22
Gene No.	114319	Strand	-
Start	621	End	1002
Name	OJ000322_21.0419.C22.o1.gp	Method	AAT/GAP
Start	621	End	1002
GI	uC-osf1cyp033a04b1	Score	683
Exons	621..1002		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	54513	Seq. ID	OJ000322_21.0419.C22
Gene No.	114320	Strand	-
Start	1842	End	2453
Name	OJ000322_21.0419.C22.o2.gs	Method	GENSCAN
Start	1842	End	2453
GI	none	Score	.62
Exons	1842..2453		

Seq. No.	54513	Seq. ID	OJ000322_21.0419.C22
Gene No.	114321	Strand	-
Start	3269	End	5531
Name	OJ000322_21.0419.C22.o3.gs	Method	GENSCAN
Start	3269	End	5531
GI	none	Score	.66
Exons	3269..3845, 3872..3993, 4137..4502, 4580..5313, 5402..5531		

Seq. No.	54513	Seq. ID	OJ000322_21.0419.C22
Gene No.	114322	Strand	-

Start	6733	End	8150
Name	OJ000322_21.0419.C22.o2.np	Method	AAT/NAP
Start	6733	End	8150
GI	7292499	Score	213
Exons	6733..7253, 7314..7433, 8125..8150		
GI Descrip.	(AE003481) CG15021 gene product [Drosophila melanogaster]		

Seq. No.	54513	Seq. ID	OJ000322_21.0419.C22
Gene No.	114322	Strand	-
Start	6733	End	8150
Name	OJ000322_21.0419.C22.o2.gp	Method	AAT/GAP
Start	7684	End	7869
GI	5002953	Score	258
Exons	7684..7869		
GI Descrip.	4680203/gb|AAD27566.1|AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	54513	Seq. ID	OJ000322_21.0419.C22
Gene No.	114322	Strand	-
Start	6733	End	8150
Name	OJ000322_21.0419.C22.o5.gs	Method	GENSCAN
Start	7820	End	8100
GI	none	Score	.68
Exons	7820..8100		

Seq. No.	54513	Seq. ID	OJ000322_21.0419.C22
Gene No.	114322	Strand	-
Start	6733	End	8150
Name	OJ000322_21.0419.C22.o3.np	Method	AAT/NAP
Start	8005	End	8150
GI	4680203	Score	63
Exons	8005..8150		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	54514	Seq. ID	OJ000322_21.0419.C23
Gene No.	114323	Strand	-
Start	1	End	1562
Name	OJ000322_21.0419.C23.o1.np	Method	AAT/NAP
Start	1	End	1562
GI	6742729	Score	1019
Exons	1..1057, 1104..1562		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	54514	Seq. ID	OJ000322_21.0419.C23
Gene No.	114323	Strand	-
Start	1	End	1562
Name	OJ000322_21.0419.C23.o1.tw	Method	TBLASTX:Wheat
Start	8	End	730
GI	none	Score	79
Exons	8..181, 12..182, 188..730, 198..686		

Seq. No.	54514	Seq. ID	OJ000322_21.0419.C23
Gene No.	114323	Strand	-
Start	1	End	1562
Name	OJ000322_21.0419.C23.o1.tc	Method	TBLASTX:Cress
Start	17	End	443
GI	none	Score	79

Exons 17..181, 30..182, 198..443, 203..439

Seq. No.	54514	Seq. ID	OJ000322_21.0419.C23
Gene No.	114323	Strand	-
Start	1	End	1562
Name	OJ000322_21.0419.C23.o1.tm	Method	TBLASTX:Maize
Start	374	End	689
GI	none	Score	124
Exons	374..688, 393..689		

Seq. No.	54514	Seq. ID	OJ000322_21.0419.C23
Gene No.	114323	Strand	-
Start	1	End	1562
Name	OJ000322_21.0419.C23.o2.tw	Method	TBLASTX:Wheat
Start	739	End	1083
GI	none	Score	60
Exons	739..810, 743..820, 853..1083, 890..1054		

Seq. No.	54514	Seq. ID	OJ000322_21.0419.C23
Gene No.	114323	Strand	-
Start	1	End	1562
Name	OJ000322_21.0419.C23.o1.ts	Method	TBLASTX:Soybean
Start	1222	End	1456
GI	none	Score	80
Exons	1222..1455, 1301..1456		

Seq. No.	54514	Seq. ID	OJ000322_21.0419.C23
Gene No.	114323	Strand	-
Start	1	End	1562
Name	OJ000322_21.0419.C23.o2.tm	Method	TBLASTX:Maize
Start	1291	End	1551
GI	none	Score	76
Exons	1291..1485, 1489..1551		

Seq. No.	54515	Seq. ID	OJ000322_21.0419.C25
Gene No.	114324	Strand	+
Start	1116	End	3244
Name	OJ000322_21.0419.C25.o1.gs	Method	GENSCAN
Start	1116	End	3196
GI	none	Score	.86
Exons	1116..1242, 1450..1549, 1643..2279, 2740..2893, 2997..3196		

Seq. No.	54515	Seq. ID	OJ000322_21.0419.C25
Gene No.	114324	Strand	+
Start	1116	End	3244
Name	OJ000322_21.0419.C25.o1.gp	Method	AAT/GAP
Start	1379	End	1821
GI	4878218	Score	676
Exons	1379..1549, 1643..1821		
GI Descrip.	3603401 1.0e-28 (AF083333) cinnamyl-alcohol dehydrogenase [Medicago sativa]		

Seq. No.	54515	Seq. ID	OJ000322_21.0419.C25
Gene No.	114324	Strand	+
Start	1116	End	3244
Name	OJ000322_21.0419.C25.o1.np	Method	AAT/NAP
Start	1458	End	3199

GI	4097522	Score	1039
Exons	1458..1549, 1643..2279, 2740..2893, 2997..3199		
GI Descrip.	(U63534) cinnamyl alcohol dehydrogenase [Fragaria x ananassa]		

Seq. No.	54515	Seq. ID	OJ000322_21.0419.C25
Gene No.	114324	Strand	+
Start	1116	End	3244
Name	OJ000322_21.0419.C25.o2.gp	Method	AAT/GAP
Start	2977	End	3244
GI	2799462	Score	440
Exons	2977..3244		
GI Descrip.	4467104/emb|CAB37538| 4.0e-12 (AL035538) cinnamyl-alcohol dehydrogenase ELI3-1 [Arabidopsis thaliana]		

Seq. No.	54515	Seq. ID	OJ000322_21.0419.C25
Gene No.	114325	Strand	+
Start	5232	End	7408
Name	OJ000322_21.0419.C25.o2.np	Method	AAT/NAP
Start	5232	End	7408
GI	7485592	Score	1596
Exons	5232..5283, 5320..5693, 5802..6310, 6371..7408		
GI Descrip.	hypothetical protein F17A8.10 - Arabidopsis thaliana gi|4538896|emb|CAB39633.1| (AL049482) putative protein [Arabidopsis thaliana] gi|7267661|emb|CAB78089.1| (AL161515) putative protein [Arabidopsis thaliana]		

Seq. No.	54515	Seq. ID	OJ000322_21.0419.C25
Gene No.	114326	Strand	-
Start	10364	End	10801
Name	OJ000322_21.0419.C25.o3.gp	Method	AAT/GAP
Start	10364	End	10801
GI	2428185	Score	695
Exons	10364..10801		
GI Descrip.	5852170/emb|AL117265.1|OST17804 1.0e-177 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804		

Seq. No.	54515	Seq. ID	OJ000322_21.0419.C25
Gene No.	114327	Strand	-
Start	12492	End	13905
Name	OJ000322_21.0419.C25.o1.ts	Method	TBLASTX:Soybean
Start	1452	End	3175
GI	none	Score	117
Exons	1452..1550, 1478..1540, 1638..1751, 1640..2071, 1641..2087, 2142..2279, 2153..2278, 2740..2898, 2748..2894, 2996..3175, 3031..3168		

Seq. No.	54515	Seq. ID	OJ000322_21.0419.C25
Gene No.	114327	Strand	-
Start	12492	End	13905
Name	OJ000322_21.0419.C25.o1.tm	Method	TBLASTX:Maize
Start	1457	End	2000
GI	none	Score	93
Exons	1457..1528, 1458..1517, 1472..1522, 1500..1550, 1501..1551, 1515..1553, 1640..1765, 1641..2000, 1817..1996		

Seq. No.	54515	Seq. ID	OJ000322_21.0419.C25
Gene No.	114327	Strand	-

Start	12492	End	13905
Name	OJ000322_21.0419.C25.o1.tc	Method	TBLASTX:Cress
Start	1640	End	3189
GI	none	Score	454
Exons	1640..2083, 1641..2093, 2142..2279, 2153..2194, 2752..2904, 2996..3175, 3031..3189		

Seq. No.	54515	Seq. ID	OJ000322_21.0419.C25
Gene No.	114327	Strand	-
Start	12492	End	13905
Name	OJ000322_21.0419.C25.o3.tw	Method	TBLASTX:Wheat
Start	1661	End	2084
GI	none	Score	336
Exons	1661..2080, 1662..2000, 2046..2084		

Seq. No.	54515	Seq. ID	OJ000322_21.0419.C25
Gene No.	114327	Strand	-
Start	12492	End	13905
Name	OJ000322_21.0419.C25.o6.tm	Method	TBLASTX:Maize
Start	2040	End	3181
GI	none	Score	70
Exons	2040..2084, 2042..2080, 2142..2288, 2153..2200, 2226..2279, 2740..2895, 2996..3181, 3055..3180		

Seq. No.	54515	Seq. ID	OJ000322_21.0419.C25
Gene No.	114327	Strand	-
Start	12492	End	13905
Name	OJ000322_21.0419.C25.o5.tw	Method	TBLASTX:Wheat
Start	2142	End	3178
GI	none	Score	147
Exons	2142..2279, 2153..2260, 2851..2889, 2987..3178		

Seq. No.	54515	Seq. ID	OJ000322_21.0419.C25
Gene No.	114327	Strand	-
Start	12492	End	13905
Name	OJ000322_21.0419.C25.o4.tm	Method	TBLASTX:Maize
Start	6206	End	6598
GI	none	Score	256
Exons	6206..6511, 6232..6444, 6233..6490, 6521..6598		

Seq. No.	54515	Seq. ID	OJ000322_21.0419.C25
Gene No.	114327	Strand	-
Start	12492	End	13905
Name	OJ000322_21.0419.C25.o5.tm	Method	TBLASTX:Maize
Start	7078	End	7507
GI	none	Score	162
Exons	7078..7176, 7079..7312, 7166..7477, 7382..7507		

Seq. No.	54515	Seq. ID	OJ000322_21.0419.C25
Gene No.	114327	Strand	-
Start	12492	End	13905
Name	OJ000322_21.0419.C25.o3.gs	Method	GENSCAN
Start	12492	End	13887
GI	none	Score	.53
Exons	12492..12785, 12841..13284, 13510..13887		

Seq. No.	54515	Seq. ID	OJ000322_21.0419.C25

Gene No.	114327	Strand	-
Start	12492	End	13905
Name	OJ000322_21.0419.C25.o3.np	Method	AAT/NAP
Start	12495	End	13905
GI	6983860	Score	2406
Exons	12495..13905		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	54515	Seq. ID	OJ000322_21.0419.C25
Gene No.	114327	Strand	-
Start	12492	End	13905
Name	OJ000322_21.0419.C25.o4.tw	Method	TBLASTX:Wheat
Start	12618	End	12871
GI	none	Score	65
Exons	12618..12767, 12760..12870, 12764..12871		

Seq. No.	54515	Seq. ID	OJ000322_21.0419.C25
Gene No.	114327	Strand	-
Start	12492	End	13905
Name	OJ000322_21.0419.C25.o2.tm	Method	TBLASTX:Maize
Start	12735	End	13318
GI	none	Score	87
Exons	12735..12767, 12760..13158, 12764..12931, 12998..13159, 13156..13317, 13163..13318		

Seq. No.	54515	Seq. ID	OJ000322_21.0419.C25
Gene No.	114327	Strand	-
Start	12492	End	13905
Name	OJ000322_21.0419.C25.o1.tw	Method	TBLASTX:Wheat
Start	12871	End	13497
GI	none	Score	44
Exons	12871..13497, 12872..12931, 12992..13441		

Seq. No.	54515	Seq. ID	OJ000322_21.0419.C25
Gene No.	114327	Strand	-
Start	12492	End	13905
Name	OJ000322_21.0419.C25.o3.tm	Method	TBLASTX:Maize
Start	13366	End	13657
GI	none	Score	314
Exons	13366..13656, 13370..13657, 13370..13657		

Seq. No.	54515	Seq. ID	OJ000322_21.0419.C25
Gene No.	114327	Strand	-
Start	12492	End	13905
Name	OJ000322_21.0419.C25.o2.ts	Method	TBLASTX:Soybean
Start	13456	End	13716
GI	none	Score	187
Exons	13456..13716, 13457..13705		

Seq. No.	54515	Seq. ID	OJ000322_21.0419.C25
Gene No.	114327	Strand	-
Start	12492	End	13905
Name	OJ000322_21.0419.C25.o2.tc	Method	TBLASTX:Cress
Start	13480	End	13806
GI	none	Score	87
Exons	13480..13623, 13481..13621, 13624..13806		

Seq. No.	54515	Seq. ID	OJ000322_21.0419.C25
Gene No.	114327	Strand	-
Start	12492	End	13905
Name	OJ000322_21.0419.C25.o2.tw	Method	TBLASTX:Wheat
Start	13503	End	13896
GI	none	Score	139
Exons	13503..13757, 13504..13896, 13508..13888		

Seq. No.	54516	Seq. ID	OJ000322_21.0419.C26
Gene No.	114328	Strand	-
Start	1	End	1426
Name	OJ000322_21.0419.C26.o1.np	Method	AAT/NAP
Start	1	End	1426
GI	6063554	Score	103
Exons	1..52, 1178..1426		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	54517	Seq. ID	OJ000322_21.0419.C27
Gene No.	114329	Strand	+
Start	1	End	5558
Name	OJ000322_21.0419.C27.o1.np	Method	AAT/NAP
Start	1	End	5558
GI	5852180	Score	365
Exons	1..117, 845..1383, 5508..5558		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	54517	Seq. ID	OJ000322_21.0419.C27
Gene No.	114329	Strand	+
Start	1	End	5558
Name	OJ000322_21.0419.C27.o1.gs	Method	GENSCAN
Start	585	End	1406
GI	none	Score	.8
Exons	585..665, 826..1406		

Seq. No.	54517	Seq. ID	OJ000322_21.0419.C27
Gene No.	114329	Strand	+
Start	1	End	5558
Name	OJ000322_21.0419.C27.o2.gp	Method	AAT/GAP
Start	3063	End	3631
GI	4879016	Score	828
Exons	3063..3631		
GI Descrip.	6041757/gb|AC011806.1|AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence		

Seq. No.	54517	Seq. ID	OJ000322_21.0419.C27
Gene No.	114330	Strand	+
Start	9954	End	10636
Name	OJ000322_21.0419.C27.o4.gp	Method	AAT/GAP
Start	9775	End	10157
GI	uC-osflcyp033a04b1	Score	696
Exons	9775..10157		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	54517	Seq. ID	OJ000322_21.0419.C27
Gene No.	114330	Strand	+
Start	9954	End	10636
Name	OJ000322_21.0419.C27.o4.gs	Method	GENSCAN
Start	9954	End	10636
GI	none	Score	.83
Exons	9954..10029, 10599..10636		

Seq. No.	54517	Seq. ID	OJ000322_21.0419.C27
Gene No.	114331	Strand	-
Start	1	End	348
Name	OJ000322_21.0419.C27.o1.gp	Method	AAT/GAP
Start	1	End	348
GI	uC-osflcyp033a04b1	Score	631
Exons	1..348		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	54517	Seq. ID	OJ000322_21.0419.C27
Gene No.	114332	Strand	-
Start	2124	End	2721
Name	OJ000322_21.0419.C27.o2.np	Method	AAT/NAP
Start	2068	End	2630
GI	4417306	Score	215
Exons	2068..2630		
GI Descrip.	(AC006446) putative Athila retroelement ORF1 protein [Arabidopsis thaliana]		

Seq. No.	54517	Seq. ID	OJ000322_21.0419.C27
Gene No.	114332	Strand	-
Start	2124	End	2721
Name	OJ000322_21.0419.C27.o2.gs	Method	GENSCAN
Start	2124	End	2721
GI	none	Score	.99
Exons	2124..2558, 2578..2721		

Seq. No.	54517	Seq. ID	OJ000322_21.0419.C27
Gene No.	114333	Strand	-
Start	3355	End	12667
Name	OJ000322_21.0419.C27.o1.tw	Method	TBLASTX:Wheat
Start	2067	End	2387
GI	none	Score	95
Exons	2067..2255, 2271..2387		

Seq. No.	54517	Seq. ID	OJ000322_21.0419.C27
Gene No.	114333	Strand	-
Start	3355	End	12667
Name	OJ000322_21.0419.C27.o3.np	Method	AAT/NAP
Start	3355	End	12667
GI	5852180	Score	626
Exons	3355..3422, 8428..8855, 8907..9024, 10006..10059, 12609..12667		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	54517	Seq. ID	OJ000322_21.0419.C27
Gene No.	114333	Strand	-
Start	3355	End	12667

Name	OJ000322_21.0419.C27.o3.gs	Method	GENSCAN
Start	8392	End	8862
GI	none	Score	.99
Exons	8392..8862		

Seq. No.	54518	Seq. ID	OJ000322_21.0419.C28
Gene No.	114334	Strand	+
Start	508	End	2017
Name	OJ000322_21.0419.C28.o2.np	Method	AAT/NAP
Start	508	End	2017
GI	4680203	Score	119
Exons	508..554, 1781..2017		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	54518	Seq. ID	OJ000322_21.0419.C28
Gene No.	114335	Strand	+
Start	1998	End	2287
Name	OJ000322_21.0419.C28.o1.gp	Method	AAT/GAP
Start	1998	End	2287
GI	61605_3.R1084	Score	445
Exons	1998..2287		
GI Descrip.	'1402920/emb|CAA66965| 2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	54518	Seq. ID	OJ000322_21.0419.C28
Gene No.	114336	Strand	-
Start	1	End	831
Name	OJ000322_21.0419.C28.o1.np	Method	AAT/NAP
Start	1	End	831
GI	7486419	Score	72
Exons	1..426, 459..558, 693..831		
GI Descrip.	hypothetical protein F4D11.90 - Arabidopsis thaliana gi|3063699|emb|CAA18590.1| (AL022537) putative protein [Arabidopsis thaliana] gi|7270175|emb|CAB79988.1| (AL161581) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	54519	Seq. ID	OJ000322_21.0419.C29
Gene No.	114337	Strand	+
Start	1	End	2413
Name	OJ000322_21.0419.C29.o1.np	Method	AAT/NAP
Start	1	End	2413
GI	5852180	Score	386
Exons	1..69, 898..1030, 2039..2413		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	54519	Seq. ID	OJ000322_21.0419.C29
Gene No.	114337	Strand	+
Start	1	End	2413
Name	OJ000322_21.0419.C29.o1.gp	Method	AAT/GAP
Start	414	End	669
GI	61605_3.R1084	Score	441
Exons	414..669		
GI Descrip.	'1402920/emb|CAA66965| 2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	54519	Seq. ID	OJ000322_21.0419.C29
Gene No.	114338	Strand	-

Start	2068	End	4310
Name	OJ000322_21.0419.C29.o2.gp	Method	AAT/GAP
Start	1200	End	1629
GI	2428185	Score	817
Exons	1200..1629		
GI Descrip.	5852170/emb|AL117265.1|OST17804 1.0e-177 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804		

Seq. No.	54519	Seq. ID	OJ000322_21.0419.C29
Gene No.	114338	Strand	-
Start	2068	End	4310
Name	OJ000322_21.0419.C29.o3.gp	Method	AAT/GAP
Start	1647	End	2381
GI	101153_1.R1084	Score	518
Exons	1647..1874, 2195..2381		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 1.0e-115 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	54519	Seq. ID	OJ000322_21.0419.C29
Gene No.	114338	Strand	-
Start	2068	End	4310
Name	OJ000322_21.0419.C29.o1.gs	Method	GENSCAN
Start	2068	End	4258
GI	none	Score	.61
Exons	2068..2271, 2331..2451, 2525..2789, 3391..3419, 3504..4258		

Seq. No.	54519	Seq. ID	OJ000322_21.0419.C29
Gene No.	114338	Strand	-
Start	2068	End	4310
Name	OJ000322_21.0419.C29.o2.np	Method	AAT/NAP
Start	3572	End	4310
GI	6983860	Score	509
Exons	3572..4310		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	54519	Seq. ID	OJ000322_21.0419.C29
Gene No.	114339	Strand	-
Start	4825	End	4910
Name	OJ000322_21.0419.C29.o1.tm	Method	TBLASTX:Maize
Start	3896	End	4207
GI	none	Score	49
Exons	3896..3982, 3947..4207, 4023..4193		

Seq. No.	54519	Seq. ID	OJ000322_21.0419.C29
Gene No.	114339	Strand	-
Start	4825	End	4910
Name	OJ000322_21.0419.C29.o1.tw	Method	TBLASTX:Wheat
Start	3947	End	4207
GI	none	Score	143
Exons	3947..4207, 4017..4193		

Seq. No.	54519	Seq. ID	OJ000322_21.0419.C29
Gene No.	114339	Strand	-
Start	4825	End	4910
Name	OJ000322_21.0419.C29.o4.gp	Method	AAT/GAP
Start	4825	End	4910

GI	61605_3.R1084	Score	133
Exons	4825..4910		
GI Descrip.	'1402920/emb|CAA66965| 2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	54520	Seq. ID	OJ000322_21.0419.C33
Gene No.	114340	Strand	+
Start	118	End	618
Name	OJ000322_21.0419.C33.o1.tm	Method	TBLASTX:Maize
Start	93	End	618
GI	none	Score	65
Exons	93..188, 116..181, 118..189, 159..188, 306..344, 308..535, 309..425, 311..475, 511..618		

Seq. No.	54520	Seq. ID	OJ000322_21.0419.C33
Gene No.	114340	Strand	+
Start	118	End	618
Name	OJ000322_21.0419.C33.o1.gs	Method	GENSCAN
Start	118	End	617
GI	none	Score	.43
Exons	118..219, 305..617		

Seq. No.	54521	Seq. ID	OJ000322_21.0419.C34
Gene No.	114341	Strand	-
Start	264	End	321
Name	OJ000322_21.0419.C34.o1.gs	Method	GENSCAN
Start	264	End	321
GI	none	Score	.72
Exons	264..321		

Seq. No.	54521	Seq. ID	OJ000322_21.0419.C34
Gene No.	114342	Strand	-
Start	1003	End	1087
Name	OJ000322_21.0419.C34.o1.gp	Method	AAT/GAP
Start	1003	End	1087
GI	LIB3432-060-P1-K1-F9	Score	135
Exons	1003..1087		
GI Descrip.	'4521193/dbj|AB013450.1|AB013450 3.0e-40 Oryza sativa DNA, similar sequence to Pib gene'		

Seq. No.	54522	Seq. ID	OJ000322_21.0419.C35
Gene No.	114343	Strand	-
Start	1	End	695
Name	OJ000322_21.0419.C35.o1.np	Method	AAT/NAP
Start	1	End	695
GI	6983860	Score	1034
Exons	1..695		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	54522	Seq. ID	OJ000322_21.0419.C35
Gene No.	114343	Strand	-
Start	1	End	695
Name	OJ000322_21.0419.C35.o1.tm	Method	TBLASTX:Maize
Start	3	End	272
GI	none	Score	225
Exons	3..272		

Seq. No.	54522	Seq. ID	OJ000322_21.0419.C35
Gene No.	114343	Strand	-
Start	1	End	695
Name	OJ000322_21.0419.C35.o1.tw	Method	TBLASTX:Wheat
Start	3	End	275
GI	none	Score	60
Exons	3..272, 26..151, 78..275		

Seq. No.	54522	Seq. ID	OJ000322_21.0419.C35
Gene No.	114343	Strand	-
Start	1	End	695
Name	OJ000322_21.0419.C35.o2.tw	Method	TBLASTX:Wheat
Start	324	End	525
GI	none	Score	129
Exons	324..506, 325..525		

Seq. No.	54523	Seq. ID	OJ000302_21.0419.C1
Gene No.	114344	Strand	+
Start	1164	End	2950
Name	OJ000302_21.0419.C1.o1.gs	Method	GENSCAN
Start	1164	End	2878
GI	none	Score	.65
Exons	1164..1252, 1942..2135, 2167..2878		

Seq. No.	54523	Seq. ID	OJ000302_21.0419.C1
Gene No.	114344	Strand	+
Start	1164	End	2950
Name	OJ000302_21.0419.C1.o1.np	Method	AAT/NAP
Start	1958	End	2950
GI	7485805	Score	551
Exons	1958..2950		
GI Descrip.	hypothetical protein F19I3.2 - Arabidopsis thaliana gi|3033375|gb|AAC12819.1| (AC004238) putative berberine bridge enzyme [Arabidopsis thaliana]		

Seq. No.	54523	Seq. ID	OJ000302_21.0419.C1
Gene No.	114344	Strand	+
Start	1164	End	2950
Name	OJ000302_21.0419.C1.o1.tm	Method	TBLASTX:Maize
Start	2172	End	2597
GI	none	Score	280
Exons	2172..2501, 2172..2249, 2313..2447, 2538..2597		

Seq. No.	54523	Seq. ID	OJ000302_21.0419.C1
Gene No.	114344	Strand	+
Start	1164	End	2950
Name	OJ000302_21.0419.C1.o1.ts	Method	TBLASTX:Soybean
Start	2172	End	2753
GI	none	Score	82
Exons	2172..2321, 2328..2753, 2645..2752		

Seq. No.	54523	Seq. ID	OJ000302_21.0419.C1
Gene No.	114344	Strand	+
Start	1164	End	2950
Name	OJ000302_21.0419.C1.o1.tc	Method	TBLASTX:Cress
Start	2415	End	2753

GI	none	Score	284
Exons	2415..2753, 2540..2752		

Seq. No.	54524	Seq. ID	OJ000302_21.0419.C2
Gene No.	114345	Strand	+
Start	1	End	507
Name	OJ000302_21.0419.C2.o1.np	Method	AAT/NAP
Start	1	End	495
GI	7486975	Score	318
Exons	1..495		
GI Descrip.	hypothetical protein T13K14.20 - Arabidopsis thaliana gi|5262776|emb|CAB45881.1| (AL080282) berberine bridge enzyme-like protein [Arabidopsis thaliana] gi|7268882|emb|CAB79086.1| (AL161553) berberine bridge enzyme-like protein [Arabidopsis thaliana]		

Seq. No.	54524	Seq. ID	OJ000302_21.0419.C2
Gene No.	114345	Strand	+
Start	1	End	507
Name	OJ000302_21.0419.C2.o1.gs	Method	GENSCAN
Start	34	End	507
GI	none	Score	1
Exons	34..507		

Seq. No.	54524	Seq. ID	OJ000302_21.0419.C2
Gene No.	114346	Strand	+
Start	704	End	2901
Name	OJ000302_21.0419.C2.o2.np	Method	AAT/NAP
Start	704	End	2901
GI	6498423	Score	123
Exons	704..1226, 1368..1524, 2846..2901		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	54524	Seq. ID	OJ000302_21.0419.C2
Gene No.	114347	Strand	-
Start	725	End	1098
Name	OJ000302_21.0419.C2.o1.tm	Method	TBLASTX:Maize
Start	73	End	498
GI	none	Score	51
Exons	73..144, 117..194, 136..225, 234..491, 235..498, 301..498		

Seq. No.	54524	Seq. ID	OJ000302_21.0419.C2
Gene No.	114347	Strand	-
Start	725	End	1098
Name	OJ000302_21.0419.C2.o1.tw	Method	TBLASTX:Wheat
Start	117	End	414
GI	none	Score	98
Exons	117..194, 118..216, 229..414		

Seq. No.	54524	Seq. ID	OJ000302_21.0419.C2
Gene No.	114347	Strand	-
Start	725	End	1098
Name	OJ000302_21.0419.C2.o1.tc	Method	TBLASTX:Cress
Start	136	End	492
GI	none	Score	82
Exons	136..207, 208..339, 331..492, 354..488		

Seq. No.	54524	Seq. ID	OJ000302_21.0419.C2
Gene No.	114347	Strand	-
Start	725	End	1098
Name	OJ000302_21.0419.C2.o1.ts	Method	TBLASTX:Soybean
Start	136	End	492
GI	none	Score	86
Exons	136..222, 262..345, 358..492, 378..491		

Seq. No.	54524	Seq. ID	OJ000302_21.0419.C2
Gene No.	114347	Strand	-
Start	725	End	1098
Name	OJ000302_21.0419.C2.o2.gs	Method	GENSCAN
Start	725	End	1098
GI	none	Score	.75
Exons	725..878, 987..1098		

Seq. No.	54525	Seq. ID	OJ000302_21.0419.C3
Gene No.	114348	Strand	+
Start	407	End	784
Name	OJ000302_21.0419.C3.o1.np	Method	AAT/NAP
Start	407	End	784
GI	7486045	Score	262
Exons	407..784		
GI Descrip.	hypothetical protein F23F1.8 - Arabidopsis thaliana gi|3420051|gb|AAC31852.1| (AC004680) unknown protein [Arabidopsis thaliana]		

Seq. No.	54525	Seq. ID	OJ000302_21.0419.C3
Gene No.	114349	Strand	+
Start	4253	End	5440
Name	OJ000302_21.0419.C3.o2.np	Method	AAT/NAP
Start	4253	End	5440
GI	806299	Score	739
Exons	4253..4537, 4565..5440		
GI Descrip.	(M25427) unknown protein [Zea mays]		

Seq. No.	54525	Seq. ID	OJ000302_21.0419.C3
Gene No.	114349	Strand	+
Start	4253	End	5440
Name	OJ000302_21.0419.C3.o2.tm	Method	TBLASTX:Maize
Start	4264	End	4519
GI	none	Score	104
Exons	4264..4353, 4265..4387, 4370..4519, 4370..4498		

Seq. No.	54525	Seq. ID	OJ000302_21.0419.C3
Gene No.	114349	Strand	+
Start	4253	End	5440
Name	OJ000302_21.0419.C3.o1.tw	Method	TBLASTX:Wheat
Start	4619	End	4948
GI	none	Score	266
Exons	4619..4948, 4628..4948		

Seq. No.	54525	Seq. ID	OJ000302_21.0419.C3
Gene No.	114349	Strand	+
Start	4253	End	5440
Name	OJ000302_21.0419.C3.o1.ts	Method	TBLASTX:Soybean
Start	4853	End	5257

GI	none	Score	86
Exons	4853..5014, 4870..4986, 4963..5115, 5024..5125, 5120..5257		

Seq. No.	54525	Seq. ID	OJ000302_21.0419.C3
Gene No.	114349	Strand	+
Start	4253	End	5440
Name	OJ000302_21.0419.C3.o1.tm	Method	TBLASTX:Maize
Start	4910	End	5397
GI	none	Score	65
Exons	4910..4993, 5021..5080, 5102..5386, 5132..5389, 5146..5397		

Seq. No.	54525	Seq. ID	OJ000302_21.0419.C3
Gene No.	114349	Strand	+
Start	4253	End	5440
Name	OJ000302_21.0419.C3.o1.tc	Method	TBLASTX:Cress
Start	4985	End	5350
GI	none	Score	75
Exons	4985..5107, 5144..5350		

Seq. No.	54525	Seq. ID	OJ000302_21.0419.C3
Gene No.	114349	Strand	+
Start	4253	End	5440
Name	OJ000302_21.0419.C3.o2.tw	Method	TBLASTX:Wheat
Start	5135	End	5437
GI	none	Score	247
Exons	5135..5437, 5143..5328, 5365..5430		

Seq. No.	54526	Seq. ID	OJ000302_21.0419.C4
Gene No.	114350	Strand	+
Start	1	End	1547
Name	OJ000302_21.0419.C4.o1.np	Method	AAT/NAP
Start	1	End	1547
GI	806299	Score	1060
Exons	1..1290, 1387..1547		
GI Descrip.	(M25427) unknown protein [Zea mays]		

Seq. No.	54526	Seq. ID	OJ000302_21.0419.C4
Gene No.	114350	Strand	+
Start	1	End	1547
Name	OJ000302_21.0419.C4.o1.gs	Method	GENSCAN
Start	39	End	1292
GI	none	Score	.59
Exons	39..1292		

Seq. No.	54526	Seq. ID	OJ000302_21.0419.C4
Gene No.	114351	Strand	+
Start	2208	End	4225
Name	OJ000302_21.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	534	End	1018
GI	none	Score	369
Exons	534..1016, 857..1018		

Seq. No.	54526	Seq. ID	OJ000302_21.0419.C4
Gene No.	114351	Strand	+
Start	2208	End	4225
Name	OJ000302_21.0419.C4.o1.ts	Method	TBLASTX:Soybean
Start	564	End	968

GI	none	Score	106
Exons	564..737, 726..968, 854..967		

Seq. No.	54526	Seq. ID	OJ000302_21.0419.C4
Gene No.	114351	Strand	+
Start	2208	End	4225
Name	OJ000302_21.0419.C4.o1.tw	Method	TBLASTX:Wheat
Start	639	End	2618
GI	none	Score	247
Exons	639..1070, 2412..2450, 2511..2618		

Seq. No.	54526	Seq. ID	OJ000302_21.0419.C4
Gene No.	114351	Strand	+
Start	2208	End	4225
Name	OJ000302_21.0419.C4.o2.np	Method	AAT/NAP
Start	2208	End	4225
GI	322873	Score	293
Exons	2208..2721, 2904..2962, 4193..4225		
GI Descrip.	hypothetical protein 2 - maize transposon En-1 gi|225006|prf||1206239B ORF 2 [Zea mays]		

Seq. No.	54527	Seq. ID	OJ000302_21.0419.C5
Gene No.	114352	Strand	+
Start	297	End	2611
Name	OJ000302_21.0419.C5.o1.gs	Method	GENSCAN
Start	297	End	2611
GI	none	Score	.66
Exons	297..372, 1813..1890, 2462..2611		

Seq. No.	54527	Seq. ID	OJ000302_21.0419.C5
Gene No.	114353	Strand	-
Start	2341	End	7542
Name	OJ000302_21.0419.C5.o1.np	Method	AAT/NAP
Start	2341	End	7542
GI	7486726	Score	577
Exons	2341..2387, 3309..3537, 3713..4691, 4782..5180, 5313..5723, 7440..7542		
GI Descrip.	hypothetical protein F9D12.2 - Arabidopsis thaliana gi|3319345|gb|AAC26234.1| (AF077407) contains similarity to maize transposon MuDR (GB:M76978) [Arabidopsis thaliana]		

Seq. No.	54527	Seq. ID	OJ000302_21.0419.C5
Gene No.	114353	Strand	-
Start	2341	End	7542
Name	OJ000302_21.0419.C5.o2.gs	Method	GENSCAN
Start	3268	End	6606
GI	none	Score	.49
Exons	3268..3594, 3679..4021, 5701..6229, 6561..6606		

Seq. No.	54527	Seq. ID	OJ000302_21.0419.C5
Gene No.	114354	Strand	-
Start	7445	End	8089
Name	OJ000302_21.0419.C5.o1.ts	Method	TBLASTX:Soybean
Start	4317	End	4652
GI	none	Score	208
Exons	4317..4652		

Seq. No.	54527	Seq. ID	OJ000302_21.0419.C5
Gene No.	114354	Strand	-
Start	7445	End	8089
Name	OJ000302_21.0419.C5.o3.gs	Method	GENSCAN
Start	7445	End	8089
GI	none	Score	.5
Exons	7445..7557, 7822..8089		

Seq. No.	54528	Seq. ID	OJ000302_21.0419.C7
Gene No.	114355	Strand	-
Start	1670	End	1927
Name	OJ000302_21.0419.C7.o2.gs	Method	GENSCAN
Start	1670	End	1927
GI	none	Score	.91
Exons	1670..1927		

Seq. No.	54529	Seq. ID	OJ000302_21.0419.C9
Gene No.	114356	Strand	+
Start	1	End	2687
Name	OJ000302_21.0419.C9.o1.np	Method	AAT/NAP
Start	1	End	2573
GI	4680203	Score	1508
Exons	1..836, 879..971, 1125..1355, 1632..2573		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	54529	Seq. ID	OJ000302_21.0419.C9
Gene No.	114356	Strand	+
Start	1	End	2687
Name	OJ000302_21.0419.C9.o2.tc	Method	TBLASTX:Cress
Start	171	End	392
GI	none	Score	227
Exons	171..392, 236..295, 246..350, 317..391		

Seq. No.	54529	Seq. ID	OJ000302_21.0419.C9
Gene No.	114356	Strand	+
Start	1	End	2687
Name	OJ000302_21.0419.C9.o2.tw	Method	TBLASTX:Wheat
Start	180	End	646
GI	none	Score	54
Exons	180..233, 188..223, 234..338, 245..331, 330..440, 339..455, 343..441, 347..517, 458..646, 486..641		

Seq. No.	54529	Seq. ID	OJ000302_21.0419.C9
Gene No.	114356	Strand	+
Start	1	End	2687
Name	OJ000302_21.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	237	End	680
GI	none	Score	229
Exons	237..482, 287..478, 486..680		

Seq. No.	54529	Seq. ID	OJ000302_21.0419.C9
Gene No.	114356	Strand	+
Start	1	End	2687
Name	OJ000302_21.0419.C9.o1.gs	Method	GENSCAN
Start	396	End	2549
GI	none	Score	.73
Exons	396..2549		

Seq. No.	54529	Seq. ID	OJ000302_21.0419.C9
Gene No.	114356	Strand	+
Start	1	End	2687
Name	OJ000302_21.0419.C9.o1.ts	Method	TBLASTX:Soybean
Start	515	End	749
GI	none	Score	250
Exons	515..670, 516..749		

Seq. No.	54529	Seq. ID	OJ000302_21.0419.C9
Gene No.	114356	Strand	+
Start	1	End	2687
Name	OJ000302_21.0419.C9.o3.tw	Method	TBLASTX:Wheat
Start	888	End	1238
GI	none	Score	183
Exons	888..1118, 917..1117, 1154..1237, 1155..1238		

Seq. No.	54529	Seq. ID	OJ000302_21.0419.C9
Gene No.	114356	Strand	+
Start	1	End	2687
Name	OJ000302_21.0419.C9.o3.tm	Method	TBLASTX:Maize
Start	894	End	1109
GI	none	Score	166
Exons	894..1040, 923..1030, 1047..1109		

Seq. No.	54529	Seq. ID	OJ000302_21.0419.C9
Gene No.	114356	Strand	+
Start	1	End	2687
Name	OJ000302_21.0419.C9.o2.tm	Method	TBLASTX:Maize
Start	1146	End	1631
GI	none	Score	296
Exons	1146..1631, 1163..1339, 1470..1544, 1475..1624		

Seq. No.	54529	Seq. ID	OJ000302_21.0419.C9
Gene No.	114356	Strand	+
Start	1	End	2687
Name	OJ000302_21.0419.C9.o1.gp	Method	AAT/GAP
Start	1227	End	2687
GI	5002953	Score	1280
Exons	1227..1358, 1617..2026, 2506..2687		
GI Descrip.	4680203/gb|AAD27566.1|AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	54529	Seq. ID	OJ000302_21.0419.C9
Gene No.	114356	Strand	+
Start	1	End	2687
Name	OJ000302_21.0419.C9.o1.tw	Method	TBLASTX:Wheat
Start	1242	End	2462
GI	none	Score	488
Exons	1242..1784, 1286..1732, 1803..1964, 1820..1960, 1968..2159, 2003..2143, 2148..2195, 2199..2240, 2202..2240, 2264..2341, 2265..2369, 2370..2462		

Seq. No.	54529	Seq. ID	OJ000302_21.0419.C9
Gene No.	114356	Strand	+
Start	1	End	2687
Name	OJ000302_21.0419.C9.o1.tc	Method	TBLASTX:Cress

Start	1529	End	1955
GI	none	Score	209
Exons	1529..1732, 1533..1784, 1803..1955, 1820..1942		

Seq. No.	54530	Seq. ID	OJ000302_21.0419.C10
Gene No.	114357	Strand	+
Start	1	End	21765
Name	OJ000302_21.0419.C10.o1.np	Method	AAT/NAP
Start	1	End	14733
GI	1076802	Score	318
Exons	1..21, 95..672, 3388..3447, 3901..4105, 6848..6897, 11903..12612, 14443..14733		
GI Descrip.	extensin-like protein - maize gi|600118|emb|CAA84230| (Z34465) extensin-like protein [Zea mays] gi|1096557|prf||2111476A extensin-like domain [Zea mays]		

Seq. No.	54530	Seq. ID	OJ000302_21.0419.C10
Gene No.	114357	Strand	+
Start	1	End	21765
Name	OJ000302_21.0419.C10.o1.gs	Method	GENSCAN
Start	95	End	689
GI	none	Score	.89
Exons	95..689		

Seq. No.	54530	Seq. ID	OJ000302_21.0419.C10
Gene No.	114357	Strand	+
Start	1	End	21765
Name	OJ000302_21.0419.C10.o2.gs	Method	GENSCAN
Start	2064	End	5291
GI	none	Score	.7
Exons	2064..2193, 2282..3015, 3094..4469, 4552..4722, 4889..5060, 5166..5291		

Seq. No.	54530	Seq. ID	OJ000302_21.0419.C10
Gene No.	114357	Strand	+
Start	1	End	21765
Name	OJ000302_21.0419.C10.o1.gp	Method	AAT/GAP
Start	4878	End	5399
GI	LIB3431-001-P1-N1-B5	Score	763
Exons	4878..5060, 5166..5399		
GI Descrip.	'4680203/gb|AAD27566.1|AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]'		

Seq. No.	54530	Seq. ID	OJ000302_21.0419.C10
Gene No.	114357	Strand	+
Start	1	End	21765
Name	OJ000302_21.0419.C10.o2.gp	Method	AAT/GAP
Start	11580	End	12048
GI	none	Score	876
Exons	11580..12048		

Seq. No.	54530	Seq. ID	OJ000302_21.0419.C10
Gene No.	114357	Strand	+
Start	1	End	21765
Name	OJ000302_21.0419.C10.o4.gs	Method	GENSCAN
Start	14135	End	21765
GI	none	Score	.62

Exons	14135..14190, 17955..18221, 19385..19483, 19830..19966, 21698..21765		
Seq. No.	54530	Seq. ID	OJ000302_21.0419.C10
Gene No.	114358	Strand	-
Start	6584	End	12845
Name	OJ000302_21.0419.C10.o3.gs	Method	GENSCAN
Start	6584	End	12816
GI	none	Score	.47
Exons	6584..6624, 6696..6807, 10927..10986, 11878..12277, 12332..12816		
Seq. No.	54530	Seq. ID	OJ000302_21.0419.C10
Gene No.	114358	Strand	-
Start	6584	End	12845
Name	OJ000302_21.0419.C10.o3.gp	Method	AAT/GAP
Start	12563	End	12845
GI	63236_1.R1084	Score	499
Exons	12563..12845		
GI Descrip.	'576771/gb|U16256|OSU16256 0.0e+00 Oryza sativa cone SR1 sucrose-regulated mRNA, 3''-end sequence'		
Seq. No.	54530	Seq. ID	OJ000302_21.0419.C10
Gene No.	114359	Strand	-
Start	21150	End	21643
Name	OJ000302_21.0419.C10.o5.gp	Method	AAT/GAP
Start	21150	End	21643
GI	576771	Score	804
Exons	21150..21360, 21387..21643		
GI Descrip.	576771/gb|U16256|OSU16256 0.0e+00 Oryza sativa cone SR1 sucrose-regulated mRNA, 3'-end sequence		
Seq. No.	54531	Seq. ID	OJ000302_21.0419.C11
Gene No.	114360	Strand	+
Start	1105	End	1291
Name	OJ000302_21.0419.C11.o2.gs	Method	GENSCAN
Start	1105	End	1291
GI	none	Score	.69
Exons	1105..1291		
Seq. No.	54531	Seq. ID	OJ000302_21.0419.C11
Gene No.	114361	Strand	-
Start	84	End	398
Name	OJ000302_21.0419.C11.o1.gs	Method	GENSCAN
Start	84	End	398
GI	none	Score	.52
Exons	84..228, 349..398		
Seq. No.	54532	Seq. ID	OJ000302_21.0419.C12
Gene No.	114362	Strand	+
Start	13433	End	15474
Name	OJ000302_21.0419.C12.o2.gs	Method	GENSCAN
Start	13433	End	15474
GI	none	Score	.46
Exons	13433..13435, 13835..14236, 14562..14638, 15309..15474		
Seq. No.	54532	Seq. ID	OJ000302_21.0419.C12
Gene No.	114363	Strand	-

Start	1126	End	14324
Name	OJ000302_21.0419.C12.o1.gs	Method	GENSCAN
Start	1126	End	12832
GI	none	Score	.62
Exons	1126..1356, 1714..1755, 3413..3495, 3788..3968, 4306..4382, 7046..7115, 8080..8187, 8265..8368, 8512..8578, 9647..9697, 10408..10524, 10668..10747, 11122..11317, 12176..12227, 12735..12832		

Seq. No.	54532	Seq. ID	OJ000302_21.0419.C12
Gene No.	114363	Strand	-
Start	1126	End	14324
Name	OJ000302_21.0419.C12.o1.gp	Method	AAT/GAP
Start	6747	End	8125
GI	2446_1.R1084	Score	758
Exons	6747..7115, 8080..8125		
GI Descrip.	'2982309 8.0e-15 (AF051239) probable ubiquitin activating enzyme 2 [Picea mariana]'		

Seq. No.	54532	Seq. ID	OJ000302_21.0419.C12
Gene No.	114363	Strand	-
Start	1126	End	14324
Name	OJ000302_21.0419.C12.o1.np	Method	AAT/NAP
Start	7005	End	12817
GI	7488411	Score	751
Exons	7005..7112, 8080..8187, 8265..8368, 8512..8597, 10382..10524, 10668..10747, 11122..11317, 12176..12227, 12735..12817		
GI Descrip.	ubiquitin-activating enzyme homolog F13M23.80 - Arabidopsis thaliana gi|4455237|emb|CAB36736.1| (AL035523) ubiquitin activating enzyme-like protein [Arabidopsis thaliana] gi|7269344|emb|CAB79403.1| (AL161562) ubiquitin activating enzyme-like protein [Arabidopsis thaliana]		

Seq. No.	54532	Seq. ID	OJ000302_21.0419.C12
Gene No.	114363	Strand	-
Start	1126	End	14324
Name	OJ000302_21.0419.C12.o2.gp	Method	AAT/GAP
Start	10452	End	12938
GI	LIB3431-044-P1-K1-A10	Score	1054
Exons	10452..10524, 10668..10747, 11122..11317, 12176..12227, 12735..12938		
GI Descrip.	'3647283/emb|CAA09619| 1.0e-45 (AJ011418) ubiquitin activating enzyme [Lycopersicon esculentum]'		

Seq. No.	54532	Seq. ID	OJ000302_21.0419.C12
Gene No.	114363	Strand	-
Start	1126	End	14324
Name	OJ000302_21.0419.C12.o2.np	Method	AAT/NAP
Start	12649	End	14324
GI	4457221	Score	102
Exons	12649..12715, 13814..14055, 14231..14324		
GI Descrip.	(AF127797) putative bZIP DNA-binding protein [Capsicum chinense]		

Seq. No.	54532	Seq. ID	OJ000302_21.0419.C12
Gene No.	114364	Strand	-
Start	16260	End	22950
Name	OJ000302_21.0419.C12.o2.tm	Method	TBLASTX:Maize

Start	7023	End	12781
GI	none	Score	147
Exons	7023..7115, 8069..8188, 8083..8187, 8229..8324, 8265..8345, 8266..8343, 8330..8380, 8336..8371, 8502..8579, 8513..8590, 10408..10524, 10409..10525, 10409..10525, 10659..10748, 10659..10748, 10660..10749, 11105..11326, 11115..11327, 12168..12251, 12176..12238, 12734..12781, 12735..12770, 12737..12781		

Seq. No.	54532	Seq. ID	OJ000302_21.0419.C12
Gene No.	114364	Strand	-
Start	16260	End	22950
Name	OJ000302_21.0419.C12.o1.ts	Method	TBLASTX:Soybean
Start	10668	End	12781
GI	none	Score	169
Exons	10668..10739, 11118..11318, 11120..11317, 12176..12238, 12734..12781		

Seq. No.	54532	Seq. ID	OJ000302_21.0419.C12
Gene No.	114364	Strand	-
Start	16260	End	22950
Name	OJ000302_21.0419.C12.o1.tc	Method	TBLASTX:Cress
Start	11111	End	12781
GI	none	Score	168
Exons	11111..11317, 11118..11318, 12734..12781		

Seq. No.	54532	Seq. ID	OJ000302_21.0419.C12
Gene No.	114364	Strand	-
Start	16260	End	22950
Name	OJ000302_21.0419.C12.o3.gs	Method	GENSCAN
Start	16260	End	22950
GI	none	Score	.59
Exons	16260..16316, 16955..17125, 17576..17627, 17669..17781, 17949..18157, 18455..18646, 19056..19197, 19283..19379, 19483..19588, 19673..19807, 20287..20541, 20596..21109, 21152..22612, 22745..22950		

Seq. No.	54532	Seq. ID	OJ000302_21.0419.C12
Gene No.	114364	Strand	-
Start	16260	End	22950
Name	OJ000302_21.0419.C12.o3.np	Method	AAT/NAP
Start	18022	End	22861
GI	7228438	Score	2126
Exons	18022..18064, 20858..22861		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog (AC003981) [Oryza sativa]		

Seq. No.	54532	Seq. ID	OJ000302_21.0419.C12
Gene No.	114364	Strand	-
Start	16260	End	22950
Name	OJ000302_21.0419.C12.o5.np	Method	AAT/NAP
Start	19480	End	22948
GI	7228442	Score	2943
Exons	19480..19663, 20302..22948		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein		

isolog. (AC003981) [Oryza sativa]

Seq. No.	54532	Seq. ID	OJ000302_21.0419.C12
Gene No.	114364	Strand	-
Start	16260	End	22950
Name	OJ000302_21.0419.C12.o4.np	Method	AAT/NAP
Start	20848	End	22861
GI	7228438	Score	2121
Exons	20848..22861		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog (AC003981) [Oryza sativa]		

Seq. No.	54532	Seq. ID	OJ000302_21.0419.C12
Gene No.	114364	Strand	-
Start	16260	End	22950
Name	OJ000302_21.0419.C12.o1.tw	Method	TBLASTX:Wheat
Start	21242	End	21619
GI	none	Score	71
Exons	21242..21415, 21253..21393, 21348..21416, 21440..21616, 21465..21617, 21470..21619		

Seq. No.	54532	Seq. ID	OJ000302_21.0419.C12
Gene No.	114364	Strand	-
Start	16260	End	22950
Name	OJ000302_21.0419.C12.o1.tm	Method	TBLASTX:Maize
Start	21317	End	21913
GI	none	Score	182
Exons	21317..21388, 21435..21734, 21446..21913, 21786..21908		

Seq. No.	54533	Seq. ID	OJ000302_21.0419.C13
Gene No.	114365	Strand	+
Start	1386	End	1543
Name	OJ000302_21.0419.C13.o1.gs	Method	GENSCAN
Start	1386	End	1543
GI	none	Score	.51
Exons	1386..1543		

Seq. No.	54533	Seq. ID	OJ000302_21.0419.C13
Gene No.	114366	Strand	+
Start	5882	End	5954
Name	OJ000302_21.0419.C13.o1.gp	Method	AAT/GAP
Start	5882	End	5954
GI	LIB3477-003-P1-K1-E9	Score	107
Exons	5882..5954		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	54533	Seq. ID	OJ000302_21.0419.C13
Gene No.	114367	Strand	-
Start	5381	End	5497
Name	OJ000302_21.0419.C13.o2.gs	Method	GENSCAN
Start	5381	End	5497
GI	none	Score	.83
Exons	5381..5497		

Seq. No.	54534	Seq. ID	OJ000302_21.0419.C14
Gene No.	114368	Strand	+
Start	2268	End	5486
Name	OJ000302_21.0419.C14.o1.gs	Method	GENSCAN
Start	2268	End	5486
GI	none	Score	.85
Exons	2268..2363, 3067..3133, 3284..3376, 4309..4499, 5385..5486		

Seq. No.	54535	Seq. ID	OJ000302_21.0419.C15
Gene No.	114369	Strand	-
Start	1393	End	1616
Name	OJ000302_21.0419.C15.o1.gs	Method	GENSCAN
Start	1393	End	1616
GI	none	Score	.43
Exons	1393..1616		

Seq. No.	54536	Seq. ID	OJ000302_21.0419.C16
Gene No.	114370	Strand	+
Start	4307	End	7649
Name	OJ000302_21.0419.C16.o2.gs	Method	GENSCAN
Start	4307	End	7649
GI	none	Score	.82
Exons	4307..4365, 4436..4566, 5099..5604, 5718..5800, 6320..6423, 6868..6947, 7308..7649		

Seq. No.	54536	Seq. ID	OJ000302_21.0419.C16
Gene No.	114370	Strand	+
Start	4307	End	7649
Name	OJ000302_21.0419.C16.o1.gp	Method	AAT/GAP
Start	5478	End	5783
GI	none	Score	572
Exons	5478..5783		

Seq. No.	54536	Seq. ID	OJ000302_21.0419.C16
Gene No.	114371	Strand	+
Start	16741	End	17438
Name	OJ000302_21.0419.C16.o2.np	Method	AAT/NAP
Start	16741	End	17438
GI	7529719	Score	175
Exons	16741..16897, 17030..17192, 17400..17438		
GI Descrip.	(AL132969) putative protein [Arabidopsis thaliana]		

Seq. No.	54536	Seq. ID	OJ000302_21.0419.C16
Gene No.	114372	Strand	-
Start	11098	End	11512
Name	OJ000302_21.0419.C16.o1.np	Method	AAT/NAP
Start	10579	End	11307
GI	6523097	Score	245
Exons	10579..10638, 11101..11307		
GI Descrip.	(AL133315) putative protein [Arabidopsis thaliana]		

Seq. No.	54536	Seq. ID	OJ000302_21.0419.C16
Gene No.	114372	Strand	-
Start	11098	End	11512
Name	OJ000302_21.0419.C16.o2.gp	Method	AAT/GAP
Start	11055	End	11512
GI	69595_1.R1084	Score	875

Exons	11055..11512		
GI Descrip.	'1532167 1.0e-13 (U63815) localized according to blastn similarity to EST sequences; therefore, the coding span corresponds only to an area of similarity since the initation codon and stop codon could not be precisely determined [Arabidopsis thaliana]'		
Seq. No.	54536	Seq. ID	OJ000302_21.0419.C16
Gene No.	114372	Strand	-
Start	11098	End	11512
Name	OJ000302_21.0419.C16.o3.gs	Method	GENSCAN
Start	11098	End	11307
GI	none	Score	.98
Exons	11098..11307		
Seq. No.	54536	Seq. ID	OJ000302_21.0419.C16
Gene No.	114373	Strand	-
Start	16715	End	17178
Name	OJ000302_21.0419.C16.o1.tm	Method	TBLASTX:Maize
Start	11089	End	11314
GI	none	Score	231
Exons	11089..11307, 11096..11314		
Seq. No.	54536	Seq. ID	OJ000302_21.0419.C16
Gene No.	114373	Strand	-
Start	16715	End	17178
Name	OJ000302_21.0419.C16.o1.ts	Method	TBLASTX:Soybean
Start	11095	End	11319
GI	none	Score	128
Exons	11095..11319, 11171..11308		
Seq. No.	54536	Seq. ID	OJ000302_21.0419.C16
Gene No.	114373	Strand	-
Start	16715	End	17178
Name	OJ000302_21.0419.C16.o1.tw	Method	TBLASTX:Wheat
Start	11098	End	11308
GI	none	Score	145
Exons	11098..11307, 11168..11308		
Seq. No.	54536	Seq. ID	OJ000302_21.0419.C16
Gene No.	114373	Strand	-
Start	16715	End	17178
Name	OJ000302_21.0419.C16.o4.gs	Method	GENSCAN
Start	16715	End	17178
GI	none	Score	.61
Exons	16715..17098, 17152..17178		
Seq. No.	54537	Seq. ID	OJ000302_21.0419.C17
Gene No.	114374	Strand	+
Start	1	End	4404
Name	OJ000302_21.0419.C17.o1.np	Method	AAT/NAP
Start	1	End	2342
GI	7529719	Score	352
Exons	1..46, 488..601, 717..783, 912..1017, 1112..1174, 1276..1408, 1492..1594, 1715..1797, 1912..2001, 2112..2229, 2273..2342		
GI Descrip.	(AL132969) putative protein [Arabidopsis thaliana]		

Seq. No.	54537	Seq. ID	OJ000302_21.0419.C17
Gene No.	114374	Strand	+
Start	1	End	4404
Name	OJ000302_21.0419.C17.o1.gs	Method	GENSCAN
Start	3	End	4404
GI	none	Score	.63
Exons	3..46, 488..601, 717..783, 912..1017, 1112..1170, 1269..1393, 1450..1592, 1713..1797, 1833..1971, 2112..2254, 2731..3306, 3340..3437, 3685..3783, 3853..3992, 4036..4293, 4375..4404		

Seq. No.	54537	Seq. ID	OJ000302_21.0419.C17
Gene No.	114375	Strand	-
Start	2268	End	4182
Name	OJ000302_21.0419.C17.o1.tm	Method	TBLASTX:Maize
Start	1092	End	2345
GI	none	Score	97
Exons	1092..1172, 1254..1403, 1289..1408, 1314..1376, 1489..1515, 1489..1515, 1531..1590, 1536..1592, 1537..1590, 1538..1591, 1679..1786, 1712..1756, 1912..2001, 1912..2001, 2110..2154, 2110..2154, 2238..2345, 2238..2339		

Seq. No.	54537	Seq. ID	OJ000302_21.0419.C17
Gene No.	114375	Strand	-
Start	2268	End	4182
Name	OJ000302_21.0419.C17.o2.np	Method	AAT/NAP
Start	2268	End	4182
GI	5777616	Score	130
Exons	2268..2294, 3765..4182		
GI Descrip.	(AJ245900) CAA30374.1 protein [Oryza sativa]		

Seq. No.	54538	Seq. ID	OJ000302_21.0419.C18
Gene No.	114376	Strand	+
Start	193	End	907
Name	OJ000302_21.0419.C18.o1.gs	Method	GENSCAN
Start	193	End	907
GI	none	Score	.5
Exons	193..202, 292..405, 894..907		

Seq. No.	54538	Seq. ID	OJ000302_21.0419.C18
Gene No.	114377	Strand	-
Start	1235	End	1812
Name	OJ000302_21.0419.C18.o1.tw	Method	TBLASTX:Wheat
Start	399	End	637
GI	none	Score	249
Exons	399..635, 404..637		

Seq. No.	54538	Seq. ID	OJ000302_21.0419.C18
Gene No.	114377	Strand	-
Start	1235	End	1812
Name	OJ000302_21.0419.C18.o2.tm	Method	TBLASTX:Maize
Start	468	End	671
GI	none	Score	186
Exons	468..671		

Seq. No.	54538	Seq. ID	OJ000302_21.0419.C18
Gene No.	114377	Strand	-
Start	1235	End	1812

Name	OJ000302_21.0419.C18.o1.tm	Method	TBLASTX:Maize
Start	714	End	1007
GI	none	Score	190
Exons	714..911, 749..910, 906..1007		

Seq. No.	54538	Seq. ID	OJ000302_21.0419.C18
Gene No.	114377	Strand	-
Start	1235	End	1812
Name	OJ000302_21.0419.C18.o2.gs	Method	GENSCAN
Start	1235	End	1812
GI	none	Score	.97
Exons	1235..1812		

Seq. No.	54539	Seq. ID	OJ000302_22.0418.C3
Gene No.	114378	Strand	+
Start	766	End	14549
Name	OJ000302_22.0418.C3.o1.gs	Method	GENSCAN
Start	766	End	4416
GI	none	Score	.72
Exons	766..905, 2625..2818, 2998..3127, 3218..3521, 4042..4140, 4216..4416		

Seq. No.	54539	Seq. ID	OJ000302_22.0418.C3
Gene No.	114378	Strand	+
Start	766	End	14549
Name	OJ000302_22.0418.C3.o1.np	Method	AAT/NAP
Start	3112	End	14549
GI	5852180	Score	649
Exons	3112..3134, 7919..7972, 8965..9082, 9134..9489, 9654..9708, 10416..10485, 14465..14549		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	54539	Seq. ID	OJ000302_22.0418.C3
Gene No.	114378	Strand	+
Start	766	End	14549
Name	OJ000302_22.0418.C3.o1.gp	Method	AAT/GAP
Start	4531	End	4842
GI	72524_1.R1084	Score	417
Exons	4531..4842		
GI Descrip.	'5091496/dbj|AB023482.2|AB023482 3.0e-84 Oryza sativa genomic DNA, chromosome 6, clone P0680A03, complete sequence'		

Seq. No.	54539	Seq. ID	OJ000302_22.0418.C3
Gene No.	114379	Strand	-
Start	6232	End	13624
Name	OJ000302_22.0418.C3.o2.gs	Method	GENSCAN
Start	6232	End	13624
GI	none	Score	.52
Exons	6232..6341, 6740..6809, 8987..9158, 9289..9991, 11289..11594, 11711..11804, 12305..13624		

Seq. No.	54539	Seq. ID	OJ000302_22.0418.C3
Gene No.	114379	Strand	-
Start	6232	End	13624
Name	OJ000302_22.0418.C3.o2.gp	Method	AAT/GAP
Start	7821	End	8206
GI	uC-osflcyp033a04b1	Score	629

Exons	7821..8206		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	54539	Seq. ID	OJ000302_22.0418.C3
Gene No.	114379	Strand	-
Start	6232	End	13624
Name	OJ000302_22.0418.C3.o2.np	Method	AAT/NAP
Start	9688	End	13593
GI	6983860	Score	649
Exons	9688..9731, 12385..12623, 12822..13593		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	54539	Seq. ID	OJ000302_22.0418.C3
Gene No.	114379	Strand	-
Start	6232	End	13624
Name	OJ000302_22.0418.C3.o1.tm	Method	TBLASTX:Maize
Start	12863	End	13162
GI	none	Score	75
Exons	12863..13162, 13059..13148		

Seq. No.	54539	Seq. ID	OJ000302_22.0418.C3
Gene No.	114379	Strand	-
Start	6232	End	13624
Name	OJ000302_22.0418.C3.o1.tw	Method	TBLASTX:Wheat
Start	13046	End	13402
GI	none	Score	157
Exons	13046..13402, 13047..13400		

Seq. No.	54540	Seq. ID	OJ000302_22.0418.C4
Gene No.	114380	Strand	+
Start	6295	End	17298
Name	OJ000302_22.0418.C4.o1.gp	Method	AAT/GAP
Start	6190	End	6574
GI	uC-osf1cyp033a04b1	Score	612
Exons	6190..6574		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	54540	Seq. ID	OJ000302_22.0418.C4
Gene No.	114380	Strand	+
Start	6295	End	17298
Name	OJ000302_22.0418.C4.o3.gs	Method	GENSCAN
Start	6295	End	10446
GI	none	Score	.4
Exons	6295..6360, 7459..8224, 8263..8291, 8518..9694, 9881..10446		

Seq. No.	54540	Seq. ID	OJ000302_22.0418.C4
Gene No.	114380	Strand	+
Start	6295	End	17298
Name	OJ000302_22.0418.C4.o2.gp	Method	AAT/GAP
Start	7734	End	8188
GI	95437_1.R1084	Score	786
Exons	7734..8188		
GI Descrip.	'4512226/dbj|AB014738.1|AB014738 1.0e-134 Oryza sativa gypsy-type retrotransposon RIRE3 DNA, internal region, complete		

sequence'

Seq. No.	54540	Seq. ID	OJ000302_22.0418.C4
Gene No.	114380	Strand	+
Start	6295	End	17298
Name	OJ000302_22.0418.C4.o2.np	Method	AAT/NAP
Start	8515	End	17298
GI	4680179	Score	1151
Exons	8515..9582, 9616..10140, 16237..16368, 17255..17298		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	54540	Seq. ID	OJ000302_22.0418.C4
Gene No.	114380	Strand	+
Start	6295	End	17298
Name	OJ000302_22.0418.C4.o4.np	Method	AAT/NAP
Start	14408	End	17298
GI	5852180	Score	47
Exons	14408..14432, 16333..16460, 17255..17298		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	54540	Seq. ID	OJ000302_22.0418.C4
Gene No.	114380	Strand	+
Start	6295	End	17298
Name	OJ000302_22.0418.C4.o5.np	Method	AAT/NAP
Start	16499	End	16702
GI	4680186	Score	245
Exons	16499..16702		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	54540	Seq. ID	OJ000302_22.0418.C4
Gene No.	114381	Strand	-
Start	1	End	17298
Name	OJ000302_22.0418.C4.o3.np	Method	AAT/NAP
Start	1	End	17298
GI	5042447	Score	43
Exons	1..129, 13191..13255, 14578..14658, 17259..17298		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	54540	Seq. ID	OJ000302_22.0418.C4
Gene No.	114381	Strand	-
Start	1	End	17298
Name	OJ000302_22.0418.C4.o1.np	Method	AAT/NAP
Start	478	End	1592
GI	7106512	Score	1286
Exons	478..862, 917..1592		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	54540	Seq. ID	OJ000302_22.0418.C4
Gene No.	114381	Strand	-
Start	1	End	17298
Name	OJ000302_22.0418.C4.o1.gs	Method	GENSCAN
Start	508	End	2170
GI	none	Score	.83
Exons	508..720, 800..892, 909..1433, 1476..1636, 2113..2170		

Seq. No.	54540	Seq. ID	OJ000302_22.0418.C4

Gene No.	114381	Strand	-
Start	1	End	17298
Name	OJ000302_22.0418.C4.o2.gs	Method	GENSCAN
Start	3160	End	5195
GI	none	Score	.66
Exons	3160..3818, 4847..5195		

Seq. No.	54540	Seq. ID	OJ000302_22.0418.C4
Gene No.	114381	Strand	-
Start	1	End	17298
Name	OJ000302_22.0418.C4.o3.tw	Method	TBLASTX:Wheat
Start	8576	End	8941
GI	none	Score	39
Exons	8576..8614, 8597..8629, 8680..8814, 8740..8937, 8742..8939, 8831..8938, 8848..8940, 8849..8941		

Seq. No.	54540	Seq. ID	OJ000302_22.0418.C4
Gene No.	114381	Strand	-
Start	1	End	17298
Name	OJ000302_22.0418.C4.o1.tw	Method	TBLASTX:Wheat
Start	8973	End	9324
GI	none	Score	61
Exons	8973..9167, 8984..9142, 8989..9324		

Seq. No.	54540	Seq. ID	OJ000302_22.0418.C4
Gene No.	114381	Strand	-
Start	1	End	17298
Name	OJ000302_22.0418.C4.o1.tm	Method	TBLASTX:Maize
Start	8988	End	9279
GI	none	Score	227
Exons	8988..9104, 8989..9279		

Seq. No.	54540	Seq. ID	OJ000302_22.0418.C4
Gene No.	114381	Strand	-
Start	1	End	17298
Name	OJ000302_22.0418.C4.o2.tm	Method	TBLASTX:Maize
Start	9607	End	9960
GI	none	Score	188
Exons	9607..9960		

Seq. No.	54540	Seq. ID	OJ000302_22.0418.C4
Gene No.	114381	Strand	-
Start	1	End	17298
Name	OJ000302_22.0418.C4.o2.tw	Method	TBLASTX:Wheat
Start	9643	End	10065
GI	none	Score	161
Exons	9643..9852, 9897..10010, 9898..10065		

Seq. No.	54540	Seq. ID	OJ000302_22.0418.C4
Gene No.	114381	Strand	-
Start	1	End	17298
Name	OJ000302_22.0418.C4.o4.gs	Method	GENSCAN
Start	12298	End	13235
GI	none	Score	.48
Exons	12298..12530, 12956..13235		

Seq. No.	54540	Seq. ID	OJ000302_22.0418.C4

Gene No.	114381	Strand	-
Start	1	End	17298
Name	OJ000302_22.0418.C4.o5.gs	Method	GENSCAN
Start	13739	End	14872
GI	none	Score	.97
Exons	13739..14872		

Seq. No.	54540	Seq. ID	OJ000302_22.0418.C4
Gene No.	114381	Strand	-
Start	1	End	17298
Name	OJ000302_22.0418.C4.o3.gp	Method	AAT/GAP
Start	16248	End	16631
GI	uC-osf1cyp033a04b1	Score	697
Exons	16248..16631		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	54541	Seq. ID	OJ000302_22.0418.C5
Gene No.	114382	Strand	+
Start	1	End	797
Name	OJ000302_22.0418.C5.o1.np	Method	AAT/NAP
Start	1	End	797
GI	5852180	Score	463
Exons	1..65, 116..496, 779..797		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	54541	Seq. ID	OJ000302_22.0418.C5
Gene No.	114382	Strand	+
Start	1	End	797
Name	OJ000302_22.0418.C5.o1.gs	Method	GENSCAN
Start	109	End	496
GI	none	Score	.78
Exons	109..496		

Seq. No.	54542	Seq. ID	OJ000302_22.0418.C6
Gene No.	114383	Strand	+
Start	347	End	518
Name	OJ000302_22.0418.C6.o1.gp	Method	AAT/GAP
Start	347	End	518
GI	LIB3433-026-P1-K1-C1	Score	236
Exons	347..518		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 1.0e-44 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	54542	Seq. ID	OJ000302_22.0418.C6
Gene No.	114384	Strand	+
Start	740	End	7553
Name	OJ000302_22.0418.C6.o1.gs	Method	GENSCAN
Start	740	End	7317
GI	none	Score	.64
Exons	740..918, 1310..2264, 2594..3424, 3434..4229, 4326..4494, 4600..7317		

Seq. No.	54542	Seq. ID	OJ000302_22.0418.C6
Gene No.	114384	Strand	+
Start	740	End	7553
Name	OJ000302_22.0418.C6.o1.np	Method	AAT/NAP

Start	1358	End	7553
GI	5922631	Score	6346
Exons	1358..1482, 1741..1985, 2235..2436, 2482..3045, 3088..3243, 3310..4237, 4844..7262, 7537..7553		
GI Descrip.	(AP000492) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; similar to prpol; Zea mays retrotransposon Cinful-1. (AF049110) [Oryza sativa] gi|6016864|dbj|BAA85207.1| (AP000570) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; Similar to prpol; Zea mays retrotransposon Cinful-1. (AF049110) [Oryza sativ		

Seq. No.	54542	Seq. ID	OJ000302_22.0418.C6
Gene No.	114384	Strand	+
Start	740	End	7553
Name	OJ000302_22.0418.C6.o8.tw	Method	TBLASTX:Wheat
Start	2658	End	3060
GI	none	Score	284
Exons	2658..2927, 2659..3060		

Seq. No.	54542	Seq. ID	OJ000302_22.0418.C6
Gene No.	114384	Strand	+
Start	740	End	7553
Name	OJ000302_22.0418.C6.o7.tw	Method	TBLASTX:Wheat
Start	3610	End	4011
GI	none	Score	352
Exons	3610..4011, 3672..3992		

Seq. No.	54542	Seq. ID	OJ000302_22.0418.C6
Gene No.	114384	Strand	+
Start	740	End	7553
Name	OJ000302_22.0418.C6.o4.tw	Method	TBLASTX:Wheat
Start	4219	End	4578
GI	none	Score	392
Exons	4219..4578, 4233..4577		

Seq. No.	54542	Seq. ID	OJ000302_22.0418.C6
Gene No.	114384	Strand	+
Start	740	End	7553
Name	OJ000302_22.0418.C6.o3.ts	Method	TBLASTX:Soybean
Start	4294	End	4659
GI	none	Score	122
Exons	4294..4518, 4522..4659		

Seq. No.	54542	Seq. ID	OJ000302_22.0418.C6
Gene No.	114384	Strand	+
Start	740	End	7553
Name	OJ000302_22.0418.C6.o2.tm	Method	TBLASTX:Maize
Start	4384	End	4740
GI	none	Score	362
Exons	4384..4740, 4425..4730		

Seq. No.	54542	Seq. ID	OJ000302_22.0418.C6
Gene No.	114384	Strand	+
Start	740	End	7553
Name	OJ000302_22.0418.C6.o1.tw	Method	TBLASTX:Wheat
Start	4609	End	5028

GI	none	Score	471
Exons	4609..5028, 4609..5019, 4611..5027		

Seq. No.	54542	Seq. ID	OJ000302_22.0418.C6
Gene No.	114384	Strand	+
Start	740	End	7553
Name	OJ000302_22.0418.C6.o3.tm	Method	TBLASTX:Maize
Start	4768	End	5151
GI	none	Score	334
Exons	4768..5151, 4872..5150		

Seq. No.	54542	Seq. ID	OJ000302_22.0418.C6
Gene No.	114384	Strand	+
Start	740	End	7553
Name	OJ000302_22.0418.C6.o1.ts	Method	TBLASTX:Soybean
Start	4903	End	5304
GI	none	Score	309
Exons	4903..5304, 4920..5063, 4936..5064, 5100..5270		

Seq. No.	54542	Seq. ID	OJ000302_22.0418.C6
Gene No.	114384	Strand	+
Start	740	End	7553
Name	OJ000302_22.0418.C6.o2.tw	Method	TBLASTX:Wheat
Start	5073	End	5502
GI	none	Score	404
Exons	5073..5501, 5074..5502		

Seq. No.	54542	Seq. ID	OJ000302_22.0418.C6
Gene No.	114384	Strand	+
Start	740	End	7553
Name	OJ000302_22.0418.C6.o2.ts	Method	TBLASTX:Soybean
Start	5530	End	5918
GI	none	Score	82
Exons	5530..5634, 5538..5918, 5674..5916		

Seq. No.	54542	Seq. ID	OJ000302_22.0418.C6
Gene No.	114384	Strand	+
Start	740	End	7553
Name	OJ000302_22.0418.C6.o5.tw	Method	TBLASTX:Wheat
Start	5539	End	5961
GI	none	Score	385
Exons	5539..5961, 5547..5951		

Seq. No.	54542	Seq. ID	OJ000302_22.0418.C6
Gene No.	114384	Strand	+
Start	740	End	7553
Name	OJ000302_22.0418.C6.o9.tw	Method	TBLASTX:Wheat
Start	5977	End	6318
GI	none	Score	133
Exons	5977..6123, 6151..6318		

Seq. No.	54542	Seq. ID	OJ000302_22.0418.C6
Gene No.	114384	Strand	+
Start	740	End	7553
Name	OJ000302_22.0418.C6.o1.tm	Method	TBLASTX:Maize
Start	6274	End	6636
GI	none	Score	425

Exons	6274..6597, 6294..6584, 6318..6617, 6588..6635, 6589..6636		
Seq. No.	54542	Seq. ID	OJ000302_22.0418.C6
Gene No.	114384	Strand	+
Start	740	End	7553
Name	OJ000302_22.0418.C6.o3.tw	Method	TBLASTX:Wheat
Start	6412	End	6794
GI	none	Score	399
Exons	6412..6792, 6412..6654, 6417..6794		
Seq. No.	54542	Seq. ID	OJ000302_22.0418.C6
Gene No.	114384	Strand	+
Start	740	End	7553
Name	OJ000302_22.0418.C6.o5.tm	Method	TBLASTX:Maize
Start	6738	End	7005
GI	none	Score	92
Exons	6738..6836, 6739..6837, 6828..6902, 6832..6915, 6925..7005		
Seq. No.	54542	Seq. ID	OJ000302_22.0418.C6
Gene No.	114384	Strand	+
Start	740	End	7553
Name	OJ000302_22.0418.C6.o6.tw	Method	TBLASTX:Wheat
Start	6796	End	7239
GI	none	Score	363
Exons	6796..7239, 6801..6887, 6936..7043		
Seq. No.	54542	Seq. ID	OJ000302_22.0418.C6
Gene No.	114384	Strand	+
Start	740	End	7553
Name	OJ000302_22.0418.C6.o4.tm	Method	TBLASTX:Maize
Start	7009	End	7242
GI	none	Score	191
Exons	7009..7242		
Seq. No.	54543	Seq. ID	OJ000302_22.0418.C7
Gene No.	114385	Strand	+
Start	457	End	660
Name	OJ000302_22.0418.C7.o1.np	Method	AAT/NAP
Start	457	End	660
GI	4680186	Score	234
Exons	457..660		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		
Seq. No.	54543	Seq. ID	OJ000302_22.0418.C7
Gene No.	114386	Strand	-
Start	207	End	589
Name	OJ000302_22.0418.C7.o1.gp	Method	AAT/GAP
Start	207	End	589
GI	uC-osflcyp033a04b1	Score	684
Exons	207..589		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		
Seq. No.	54543	Seq. ID	OJ000302_22.0418.C7
Gene No.	114387	Strand	-
Start	1051	End	2984
Name	OJ000302_22.0418.C7.o2.np	Method	AAT/NAP

Start	1051	End	2984
GI	6907087	Score	985
Exons	1051..1152, 1724..2421, 2601..2984		
GI Descrip.	(AP001129) ESTs C72771(E2215),AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	54543	Seq. ID	OJ000302_22.0418.C7
Gene No.	114387	Strand	-
Start	1051	End	2984
Name	OJ000302_22.0418.C7.o2.gs	Method	GENSCAN
Start	1622	End	2749
GI	none	Score	.77
Exons	1622..2502, 2508..2749		

Seq. No.	54544	Seq. ID	OJ000302_22.0418.C8
Gene No.	114388	Strand	+
Start	723	End	896
Name	OJ000302_22.0418.C8.o1.gs	Method	GENSCAN
Start	723	End	896
GI	none	Score	.67
Exons	723..896		

Seq. No.	54544	Seq. ID	OJ000302_22.0418.C8
Gene No.	114389	Strand	-
Start	2660	End	4130
Name	OJ000302_22.0418.C8.o3.gs	Method	GENSCAN
Start	2660	End	4130
GI	none	Score	.65
Exons	2660..2816, 3928..4130		

Seq. No.	54545	Seq. ID	OJ000302_22.0418.C9
Gene No.	114390	Strand	+
Start	93	End	4131
Name	OJ000302_22.0418.C9.o1.gs	Method	GENSCAN
Start	93	End	4131
GI	none	Score	.48
Exons	93..253, 306..374, 497..793, 818..938, 3977..4131		

Seq. No.	54545	Seq. ID	OJ000302_22.0418.C9
Gene No.	114391	Strand	+
Start	4313	End	12716
Name	OJ000302_22.0418.C9.o2.np	Method	AAT/NAP
Start	4313	End	12661
GI	6466937	Score	188
Exons	4313..4377, 8370..8468, 8596..8926, 12574..12661		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	54545	Seq. ID	OJ000302_22.0418.C9
Gene No.	114391	Strand	+
Start	4313	End	12716
Name	OJ000302_22.0418.C9.o3.gs	Method	GENSCAN
Start	8425	End	12698
GI	none	Score	.44
Exons	8425..8514, 8855..8926, 9636..9780, 11930..12012, 12534..12698		

Seq. No.	54545	Seq. ID	OJ000302_22.0418.C9
Gene No.	114391	Strand	+
Start	4313	End	12716
Name	OJ000302_22.0418.C9.o1.gp	Method	AAT/GAP
Start	9643	End	12716
GI	11192_2.R1084	Score	956
Exons	9643..9780, 9890..9961, 11235..11316, 11930..12012, 12534..12716		
GI Descrip.	'3892056/gb|AAC78269.1|AAC78269 1.0e-54 (AC002330) putative vacuolar ATPase [Arabidopsis thaliana]'		

Seq. No.	54545	Seq. ID	OJ000302_22.0418.C9
Gene No.	114391	Strand	+
Start	4313	End	12716
Name	OJ000302_22.0418.C9.o3.np	Method	AAT/NAP
Start	9899	End	12689
GI	7484997	Score	467
Exons	9899..9961, 11235..11316, 11930..12012, 12534..12689		
GI Descrip.	H+-transporting ATPase (EC 3.6.1.35) 14K chain, vacuolar - Arabidopsis thaliana gi|3892056|gb|AAC78269.1|AAC78269 (AC002330) putative vacuolar ATPase [Arabidopsis thaliana] gi|7269022|emb|CAB80755.1| (AL161494) putative vacuolar ATPase [Arabidopsis thaliana]		

Seq. No.	54545	Seq. ID	OJ000302_22.0418.C9
Gene No.	114392	Strand	+
Start	18932	End	20929
Name	OJ000302_22.0418.C9.o4.np	Method	AAT/NAP
Start	18858	End	20612
GI	4680181	Score	232
Exons	18858..19220, 20108..20193, 20339..20612		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	54545	Seq. ID	OJ000302_22.0418.C9
Gene No.	114392	Strand	+
Start	18932	End	20929
Name	OJ000302_22.0418.C9.o5.gs	Method	GENSCAN
Start	18932	End	20929
GI	none	Score	.65
Exons	18932..19765, 19771..20058, 20108..20929		

Seq. No.	54545	Seq. ID	OJ000302_22.0418.C9
Gene No.	114393	Strand	-
Start	218	End	4287
Name	OJ000302_22.0418.C9.o1.np	Method	AAT/NAP
Start	218	End	4287
GI	6523547	Score	186
Exons	218..773, 858..972, 4120..4287		
GI Descrip.	(AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox carteri f. nagariensis]		

Seq. No.	54545	Seq. ID	OJ000302_22.0418.C9
Gene No.	114394	Strand	-
Start	14431	End	16349
Name	OJ000302_22.0418.C9.o4.gs	Method	GENSCAN
Start	14431	End	16349
GI	none	Score	.46
Exons	14431..14618, 16172..16349		

Seq. No.	54545	Seq. ID	OJ000302_22.0418.C9
Gene No.	114395	Strand	-
Start	21319	End	22235
Name	OJ000302_22.0418.C9.o1.tw	Method	TBLASTX:Wheat
Start	8644	End	8914
GI	none	Score	167
Exons	8644..8826, 8655..8831, 8816..8914, 8851..8910		

Seq. No.	54545	Seq. ID	OJ000302_22.0418.C9
Gene No.	114395	Strand	-
Start	21319	End	22235
Name	OJ000302_22.0418.C9.o1.tc	Method	TBLASTX:Cress
Start	9890	End	12683
GI	none	Score	73
Exons	9890..9961, 11205..11315, 11234..11308, 11926..12036, 12521..12679, 12534..12683		

Seq. No.	54545	Seq. ID	OJ000302_22.0418.C9
Gene No.	114395	Strand	-
Start	21319	End	22235
Name	OJ000302_22.0418.C9.o2.tm	Method	TBLASTX:Maize
Start	9895	End	12721
GI	none	Score	90
Exons	9895..9963, 9896..9961, 11196..11315, 11234..11308, 11928..12011, 11929..12036, 11935..12012, 12534..12698, 12535..12696, 12536..12721, 12536..12697		

Seq. No.	54545	Seq. ID	OJ000302_22.0418.C9
Gene No.	114395	Strand	-
Start	21319	End	22235
Name	OJ000302_22.0418.C9.o1.ts	Method	TBLASTX:Soybean
Start	9899	End	12719
GI	none	Score	75
Exons	9899..9961, 11196..11315, 11234..11308, 11924..12013, 11925..12014, 11926..12036, 11929..12012, 12485..12694, 12534..12719		

Seq. No.	54545	Seq. ID	OJ000302_22.0418.C9
Gene No.	114395	Strand	-
Start	21319	End	22235
Name	OJ000302_22.0418.C9.o2.tw	Method	TBLASTX:Wheat
Start	12579	End	12703
GI	none	Score	187
Exons	12579..12698, 12579..12701, 12581..12703, 12583..12699		

Seq. No.	54545	Seq. ID	OJ000302_22.0418.C9
Gene No.	114395	Strand	-
Start	21319	End	22235
Name	OJ000302_22.0418.C9.o1.tm	Method	TBLASTX:Maize
Start	18941	End	19384
GI	none	Score	233
Exons	18941..19246, 18944..19246, 19289..19384, 19290..19373		

Seq. No.	54545	Seq. ID	OJ000302_22.0418.C9
Gene No.	114395	Strand	-
Start	21319	End	22235

Name	OJ000302_22.0418.C9.o6.gs	Method	GENSCAN
Start	21319	End	22235
GI	none	Score	.63
Exons	21319..21418, 21485..21614, 22073..22235		

Seq. No.	54546	Seq. ID	OJ000302_22.0418.C10
Gene No.	114396	Strand	+
Start	13359	End	18826
Name	OJ000302_22.0418.C10.o2.gs	Method	GENSCAN
Start	13359	End	18826
GI	none	Score	.6
Exons	13359..13393, 13980..14105, 14306..14366, 15890..16075, 16191..16242, 17979..18564, 18595..18826		

Seq. No.	54546	Seq. ID	OJ000302_22.0418.C10
Gene No.	114397	Strand	-
Start	1	End	10979
Name	OJ000302_22.0418.C10.o1.np	Method	AAT/NAP
Start	1	End	8781
GI	7444451	Score	1399
Exons	1..37, 255..932, 7257..8781		
GI Descrip.	probable gag/pol polyprotein - long-staminate rice retrotransposon retrofit gi|2586082|gb|AAB82754.1| (U72725) retrofit [Oryza longistaminata]		

Seq. No.	54546	Seq. ID	OJ000302_22.0418.C10
Gene No.	114397	Strand	-
Start	1	End	10979
Name	OJ000302_22.0418.C10.o1.gs	Method	GENSCAN
Start	417	End	10976
GI	none	Score	.75
Exons	417..610, 923..957, 1041..1127, 1208..1308, 1697..1752, 1958..1998, 2721..2855, 3661..5117, 5238..5696, 6153..6392, 7399..7603, 8101..8416, 8624..8734, 8736..8880, 9030..9987, 10297..10976		

Seq. No.	54546	Seq. ID	OJ000302_22.0418.C10
Gene No.	114397	Strand	-
Start	1	End	10979
Name	OJ000302_22.0418.C10.o2.np	Method	AAT/NAP
Start	9100	End	10979
GI	4680181	Score	337
Exons	9100..9236, 9277..9768, 10624..10979		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	54546	Seq. ID	OJ000302_22.0418.C10
Gene No.	114398	Strand	-
Start	11649	End	15904
Name	OJ000302_22.0418.C10.o3.np	Method	AAT/NAP
Start	11649	End	15904
GI	7487140	Score	60
Exons	11649..11717, 14498..14668, 15807..15904		
GI Descrip.	hypothetical protein T18B16.60 - Arabidopsis thaliana gi|2832637|emb|CAA16766.1| (AL021711) hypothetical protein [Arabidopsis thaliana] gi|7268704|emb|CAB78911.1| (AL161550) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	54546	Seq. ID	OJ000302_22.0418.C10
Gene No.	114399	Strand	-
Start	16373	End	16545
Name	OJ000302_22.0418.C10.o1.gp	Method	AAT/GAP
Start	16373	End	16545
GI	LIB3433-026-P1-K1-C1	Score	242
Exons	16373..16545		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 1.0e-44 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	54546	Seq. ID	OJ000302_22.0418.C10
Gene No.	114400	Strand	-
Start	19264	End	21449
Name	OJ000302_22.0418.C10.o1.tc	Method	TBLASTX:Cress
Start	331	End	815
GI	none	Score	127
Exons	331..387, 371..463, 445..567, 609..815		

Seq. No.	54546	Seq. ID	OJ000302_22.0418.C10
Gene No.	114400	Strand	-
Start	19264	End	21449
Name	OJ000302_22.0418.C10.o3.tw	Method	TBLASTX:Wheat
Start	4113	End	21270
GI	none	Score	230
Exons	4113..4235, 20845..21195, 20845..21270, 20852..21268		

Seq. No.	54546	Seq. ID	OJ000302_22.0418.C10
Gene No.	114400	Strand	-
Start	19264	End	21449
Name	OJ000302_22.0418.C10.o6.tw	Method	TBLASTX:Wheat
Start	7609	End	7932
GI	none	Score	77
Exons	7609..7692, 7683..7928, 7727..7813, 7804..7932		

Seq. No.	54546	Seq. ID	OJ000302_22.0418.C10
Gene No.	114400	Strand	-
Start	19264	End	21449
Name	OJ000302_22.0418.C10.o4.tm	Method	TBLASTX:Maize
Start	10323	End	14691
GI	none	Score	77
Exons	10323..10385, 10470..10565, 10481..10552, 10569..10778, 10572..10760, 10582..10767, 10752..10901, 14522..14557, 14547..14672, 14555..14680, 14556..14681, 14557..14691		

Seq. No.	54546	Seq. ID	OJ000302_22.0418.C10
Gene No.	114400	Strand	-
Start	19264	End	21449
Name	OJ000302_22.0418.C10.o4.ts	Method	TBLASTX:Soybean
Start	10650	End	14866
GI	none	Score	70
Exons	10650..10754, 10651..10740, 10778..10870, 10779..10955, 14566..14658, 14738..14866		

Seq. No.	54546	Seq. ID	OJ000302_22.0418.C10
Gene No.	114400	Strand	-
Start	19264	End	21449
Name	OJ000302_22.0418.C10.o2.tc	Method	TBLASTX:Cress

Start	10656	End	14661
GI	none	Score	101
Exons	10656..10745, 10779..10964, 14569..14661		

Seq. No.	54546	Seq. ID	OJ000302_22.0418.C10
Gene No.	114400	Strand	-
Start	19264	End	21449
Name	OJ000302_22.0418.C10.o2.ts	Method	TBLASTX:Soybean
Start	15878	End	21448
GI	none	Score	71
Exons	15878..16036, 16045..16128, 21286..21447, 21289..21438, 21296..21448		

Seq. No.	54546	Seq. ID	OJ000302_22.0418.C10
Gene No.	114400	Strand	-
Start	19264	End	21449
Name	OJ000302_22.0418.C10.o5.tm	Method	TBLASTX:Maize
Start	15884	End	21448
GI	none	Score	138
Exons	15884..16030, 21205..21447, 21206..21448		

Seq. No.	54546	Seq. ID	OJ000302_22.0418.C10
Gene No.	114400	Strand	-
Start	19264	End	21449
Name	OJ000302_22.0418.C10.o5.tw	Method	TBLASTX:Wheat
Start	16042	End	21448
GI	none	Score	155
Exons	16042..16137, 21271..21447, 21272..21448		

Seq. No.	54546	Seq. ID	OJ000302_22.0418.C10
Gene No.	114400	Strand	-
Start	19264	End	21449
Name	OJ000302_22.0418.C10.o3.gs	Method	GENSCAN
Start	19264	End	21318
GI	none	Score	1
Exons	19264..21318		

Seq. No.	54546	Seq. ID	OJ000302_22.0418.C10
Gene No.	114400	Strand	-
Start	19264	End	21449
Name	OJ000302_22.0418.C10.o4.np	Method	AAT/NAP
Start	19267	End	21449
GI	4680179	Score	3224
Exons	19267..21449		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	54546	Seq. ID	OJ000302_22.0418.C10
Gene No.	114400	Strand	-
Start	19264	End	21449
Name	OJ000302_22.0418.C10.o4.tw	Method	TBLASTX:Wheat
Start	19312	End	19645
GI	none	Score	143
Exons	19312..19644, 19364..19645		

Seq. No.	54546	Seq. ID	OJ000302_22.0418.C10
Gene No.	114400	Strand	-
Start	19264	End	21449

Name	OJ000302_22.0418.C10.o1.tm	Method	TBLASTX:Maize
Start	19507	End	20092
GI	none	Score	110
Exons	19507..19932, 19508..19705, 19528..19773, 19769..19933, 19928..20071, 19930..20091, 19937..20092		

Seq. No.	54546	Seq. ID	OJ000302_22.0418.C10
Gene No.	114400	Strand	-
Start	19264	End	21449
Name	OJ000302_22.0418.C10.o1.tw	Method	TBLASTX:Wheat
Start	19645	End	20271
GI	none	Score	44
Exons	19645..20271, 19646..19705, 19766..20212, 19924..20268		

Seq. No.	54546	Seq. ID	OJ000302_22.0418.C10
Gene No.	114400	Strand	-
Start	19264	End	21449
Name	OJ000302_22.0418.C10.o3.tm	Method	TBLASTX:Maize
Start	20140	End	20431
GI	none	Score	297
Exons	20140..20430, 20144..20431		

Seq. No.	54546	Seq. ID	OJ000302_22.0418.C10
Gene No.	114400	Strand	-
Start	19264	End	21449
Name	OJ000302_22.0418.C10.o1.ts	Method	TBLASTX:Soybean
Start	20230	End	20490
GI	none	Score	197
Exons	20230..20490, 20231..20479		

Seq. No.	54546	Seq. ID	OJ000302_22.0418.C10
Gene No.	114400	Strand	-
Start	19264	End	21449
Name	OJ000302_22.0418.C10.o3.tc	Method	TBLASTX:Cress
Start	20254	End	20580
GI	none	Score	87
Exons	20254..20397, 20255..20395, 20398..20580		

Seq. No.	54546	Seq. ID	OJ000302_22.0418.C10
Gene No.	114400	Strand	-
Start	19264	End	21449
Name	OJ000302_22.0418.C10.o2.tw	Method	TBLASTX:Wheat
Start	20277	End	20817
GI	none	Score	144
Exons	20277..20531, 20278..20817, 20282..20635		

Seq. No.	54546	Seq. ID	OJ000302_22.0418.C10
Gene No.	114400	Strand	-
Start	19264	End	21449
Name	OJ000302_22.0418.C10.o2.tm	Method	TBLASTX:Maize
Start	20845	End	21198
GI	none	Score	196
Exons	20845..21198, 20852..21193		

Seq. No.	54546	Seq. ID	OJ000302_22.0418.C10
Gene No.	114400	Strand	-
Start	19264	End	21449

Name	OJ000302_22.0418.C10.o3.ts	Method	TBLASTX:Soybean
Start	21016	End	21264
GI	none	Score	197
Exons	21016..21264		

Seq. No.	54547	Seq. ID	OJ000302_22.0418.C11
Gene No.	114401	Strand	-
Start	1	End	1649
Name	OJ000302_22.0418.C11.o1.np	Method	AAT/NAP
Start	1	End	1649
GI	6983860	Score	2062
Exons	1..301, 557..1649		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	54547	Seq. ID	OJ000302_22.0418.C11
Gene No.	114401	Strand	-
Start	1	End	1649
Name	OJ000302_22.0418.C11.o1.gs	Method	GENSCAN
Start	114	End	1649
GI	none	Score	.83
Exons	114..1649		

Seq. No.	54547	Seq. ID	OJ000302_22.0418.C11
Gene No.	114402	Strand	-
Start	1919	End	2719
Name	OJ000302_22.0418.C11.o2.tm	Method	TBLASTX:Maize
Start	5	End	172
GI	none	Score	150
Exons	5..172, 6..164		

Seq. No.	54547	Seq. ID	OJ000302_22.0418.C11
Gene No.	114402	Strand	-
Start	1919	End	2719
Name	OJ000302_22.0418.C11.o2.tw	Method	TBLASTX:Wheat
Start	204	End	557
GI	none	Score	51
Exons	204..557, 279..380		

Seq. No.	54547	Seq. ID	OJ000302_22.0418.C11
Gene No.	114402	Strand	-
Start	1919	End	2719
Name	OJ000302_22.0418.C11.o1.tw	Method	TBLASTX:Wheat
Start	891	End	1244
GI	none	Score	80
Exons	891..1241, 1047..1244		

Seq. No.	54547	Seq. ID	OJ000302_22.0418.C11
Gene No.	114402	Strand	-
Start	1919	End	2719
Name	OJ000302_22.0418.C11.o1.tm	Method	TBLASTX:Maize
Start	936	End	1241
GI	none	Score	88
Exons	936..1241, 1005..1241		

Seq. No.	54547	Seq. ID	OJ000302_22.0418.C11
Gene No.	114402	Strand	-

Start	1919	End	2719
Name	OJ000302_22.0418.C11.o3.tw	Method	TBLASTX:Wheat
Start	1293	End	1491
GI	none	Score	57
Exons	1293..1466, 1293..1490, 1294..1491		

Seq. No.	54547	Seq. ID	OJ000302_22.0418.C11
Gene No.	114402	Strand	-
Start	1919	End	2719
Name	OJ000302_22.0418.C11.o2.gs	Method	GENSCAN
Start	1919	End	2719
GI	none	Score	.91
Exons	1919..2719		

Seq. No.	54547	Seq. ID	OJ000302_22.0418.C11
Gene No.	114402	Strand	-
Start	1919	End	2719
Name	OJ000302_22.0418.C11.o2.np	Method	AAT/NAP
Start	1922	End	2719
GI	4512231	Score	1347
Exons	1922..2719		
GI Descrip.	(AB014741) ORF0 protein [Oryza sativa]		

Seq. No.	54548	Seq. ID	OJ000302_22.0418.C12
Gene No.	114403	Strand	-
Start	22	End	677
Name	OJ000302_22.0418.C12.o1.gs	Method	GENSCAN
Start	22	End	677
GI	none	Score	.51
Exons	22..434, 630..677		

Seq. No.	54549	Seq. ID	OJ000302_22.0418.C13
Gene No.	114404	Strand	+
Start	1	End	3539
Name	OJ000302_22.0418.C13.o1.np	Method	AAT/NAP
Start	1	End	3536
GI	4680179	Score	4729
Exons	1..101, 135..3536		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	54549	Seq. ID	OJ000302_22.0418.C13
Gene No.	114404	Strand	+
Start	1	End	3539
Name	OJ000302_22.0418.C13.o1.gs	Method	GENSCAN
Start	63	End	3539
GI	none	Score	.65
Exons	63..213, 400..3539		

Seq. No.	54549	Seq. ID	OJ000302_22.0418.C13
Gene No.	114404	Strand	+
Start	1	End	3539
Name	OJ000302_22.0418.C13.o6.tm	Method	TBLASTX:Maize
Start	126	End	479
GI	none	Score	189
Exons	126..479		

Seq. No.	54549	Seq. ID	OJ000302_22.0418.C13

Gene No.	114404	Strand	+
Start	1	End	3539
Name	OJ000302_22.0418.C13.o7.tw	Method	TBLASTX:Wheat
Start	162	End	584
GI	none	Score	163
Exons	162..371, 218..310, 416..529, 417..584		

Seq. No.	54549	Seq. ID	OJ000302_22.0418.C13
Gene No.	114404	Strand	+
Start	1	End	3539
Name	OJ000302_22.0418.C13.o4.tw	Method	TBLASTX:Wheat
Start	699	End	1181
GI	none	Score	52
Exons	699..749, 803..1138, 804..1181		

Seq. No.	54549	Seq. ID	OJ000302_22.0418.C13
Gene No.	114404	Strand	+
Start	1	End	3539
Name	OJ000302_22.0418.C13.o5.tm	Method	TBLASTX:Maize
Start	711	End	1000
GI	none	Score	276
Exons	711..998, 807..998, 809..1000		

Seq. No.	54549	Seq. ID	OJ000302_22.0418.C13
Gene No.	114404	Strand	+
Start	1	End	3539
Name	OJ000302_22.0418.C13.o2.tc	Method	TBLASTX:Cress
Start	828	End	1145
GI	none	Score	180
Exons	828..1145		

Seq. No.	54549	Seq. ID	OJ000302_22.0418.C13
Gene No.	114404	Strand	+
Start	1	End	3539
Name	OJ000302_22.0418.C13.o3.tm	Method	TBLASTX:Maize
Start	1068	End	1568
GI	none	Score	167
Exons	1068..1247, 1076..1222, 1254..1568, 1394..1447, 1475..1525		

Seq. No.	54549	Seq. ID	OJ000302_22.0418.C13
Gene No.	114404	Strand	+
Start	1	End	3539
Name	OJ000302_22.0418.C13.o1.ts	Method	TBLASTX:Soybean
Start	1122	End	1518
GI	none	Score	57
Exons	1122..1154, 1124..1153, 1158..1517, 1160..1198, 1226..1516, 1249..1518		

Seq. No.	54549	Seq. ID	OJ000302_22.0418.C13
Gene No.	114404	Strand	+
Start	1	End	3539
Name	OJ000302_22.0418.C13.o5.tw	Method	TBLASTX:Wheat
Start	1230	End	1532
GI	none	Score	382
Exons	1230..1532, 1231..1287, 1232..1516		

Seq. No.	54549	Seq. ID	OJ000302_22.0418.C13

Gene No.	114404	Strand	+
Start	1	End	3539
Name	OJ000302_22.0418.C13.o3.tw	Method	TBLASTX:Wheat
Start	1533	End	1955
GI	none	Score	598
Exons	1533..1955, 1565..1954		

Seq. No.	54549	Seq. ID	OJ000302_22.0418.C13
Gene No.	114404	Strand	+
Start	1	End	3539
Name	OJ000302_22.0418.C13.o3.ts	Method	TBLASTX:Soybean
Start	1539	End	1784
GI	none	Score	207
Exons	1539..1784, 1556..1783		

Seq. No.	54549	Seq. ID	OJ000302_22.0418.C13
Gene No.	114404	Strand	+
Start	1	End	3539
Name	OJ000302_22.0418.C13.o2.tm	Method	TBLASTX:Maize
Start	1604	End	1967
GI	none	Score	480
Exons	1604..1954, 1605..1955, 1605..1967		

Seq. No.	54549	Seq. ID	OJ000302_22.0418.C13
Gene No.	114404	Strand	+
Start	1	End	3539
Name	OJ000302_22.0418.C13.o2.tw	Method	TBLASTX:Wheat
Start	1958	End	2525
GI	none	Score	653
Exons	1958..2521, 1989..2525		

Seq. No.	54549	Seq. ID	OJ000302_22.0418.C13
Gene No.	114404	Strand	+
Start	1	End	3539
Name	OJ000302_22.0418.C13.o1.tc	Method	TBLASTX:Cress
Start	2232	End	2549
GI	none	Score	90
Exons	2232..2405, 2406..2549, 2408..2548		

Seq. No.	54549	Seq. ID	OJ000302_22.0418.C13
Gene No.	114404	Strand	+
Start	1	End	3539
Name	OJ000302_22.0418.C13.o2.ts	Method	TBLASTX:Soybean
Start	2313	End	2573
GI	none	Score	297
Exons	2313..2573, 2316..2564, 2318..2572		

Seq. No.	54549	Seq. ID	OJ000302_22.0418.C13
Gene No.	114404	Strand	+
Start	1	End	3539
Name	OJ000302_22.0418.C13.o4.tm	Method	TBLASTX:Maize
Start	2372	End	2663
GI	none	Score	375
Exons	2372..2659, 2373..2663		

Seq. No.	54549	Seq. ID	OJ000302_22.0418.C13
Gene No.	114404	Strand	+

Start	1	End	3539
Name	OJ000302_22.0418.C13.o1.tw	Method	TBLASTX:Wheat
Start	2532	End	3158
GI	none	Score	703
Exons	2532..3158, 2588..3046, 3033..3155		

Seq. No.	54549	Seq. ID	OJ000302_22.0418.C13
Gene No.	114404	Strand	+
Start	1	End	3539
Name	OJ000302_22.0418.C13.o1.tm	Method	TBLASTX:Maize
Start	2712	End	3311
GI	none	Score	231
Exons	2712..2873, 2720..2866, 2870..3295, 2871..3311		

Seq. No.	54549	Seq. ID	OJ000302_22.0418.C13
Gene No.	114404	Strand	+
Start	1	End	3539
Name	OJ000302_22.0418.C13.o6.tw	Method	TBLASTX:Wheat
Start	3158	End	3491
GI	none	Score	328
Exons	3158..3427, 3159..3491, 3162..3470		

Seq. No.	54550	Seq. ID	OJ000322_22.0419.C3
Gene No.	114405	Strand	-
Start	191	End	244
Name	OJ000322_22.0419.C3.o1.gs	Method	GENSCAN
Start	191	End	244
GI	none	Score	.42
Exons	191..244		

Seq. No.	54551	Seq. ID	OJ000322_22.0419.C4
Gene No.	114406	Strand	-
Start	7	End	514
Name	OJ000322_22.0419.C4.o1.np	Method	AAT/NAP
Start	7	End	514
GI	6006381	Score	368
Exons	7..120, 201..514		
GI Descrip.	(AP000559) hypothetical protein [Oryza sativa]		

Seq. No.	54551	Seq. ID	OJ000322_22.0419.C4
Gene No.	114407	Strand	-
Start	5830	End	5978
Name	OJ000322_22.0419.C4.o2.gs	Method	GENSCAN
Start	5830	End	5978
GI	none	Score	.93
Exons	5830..5978		

Seq. No.	54552	Seq. ID	OJ000322_22.0419.C10
Gene No.	114408	Strand	+
Start	164	End	246
Name	OJ000322_22.0419.C10.o1.gs	Method	GENSCAN
Start	164	End	246
GI	none	Score	.65
Exons	164..246		

Seq. No.	54553	Seq. ID	OJ000322_22.0419.C11
Gene No.	114409	Strand	+

Start	3050	End	5812
Name	OJ000322_22.0419.C11.o1.np	Method	AAT/NAP
Start	3050	End	5812
GI	5042463	Score	307
Exons	3050..3084, 4855..5042, 5724..5812		
GI Descrip.	(AC007789) unknown protein [Oryza sativa]		

Seq. No.	54553	Seq. ID	OJ000322_22.0419.C11
Gene No.	114410	Strand	-
Start	24	End	5056
Name	OJ000322_22.0419.C11.o1.gs	Method	GENSCAN
Start	24	End	5056
GI	none	Score	.6
Exons	24..175, 491..629, 697..815, 931..1049, 1420..1545, 2264..2334, 2612..2676, 4459..4645, 4964..5056		

Seq. No.	54554	Seq. ID	OJ000322_22.0419.C12
Gene No.	114411	Strand	-
Start	583	End	764
Name	OJ000322_22.0419.C12.o1.gs	Method	GENSCAN
Start	583	End	764
GI	none	Score	.43
Exons	583..764		

Seq. No.	54555	Seq. ID	OJ000322_22.0419.C13
Gene No.	114412	Strand	+
Start	1	End	1785
Name	OJ000322_22.0419.C13.o1.np	Method	AAT/NAP
Start	1	End	1785
GI	5852182	Score	146
Exons	1..36, 456..660, 1763..1785		
GI Descrip.	(AL117265) zhb0012.1 [Oryza sativa]		

Seq. No.	54555	Seq. ID	OJ000322_22.0419.C13
Gene No.	114412	Strand	+
Start	1	End	1785
Name	OJ000322_22.0419.C13.o1.gs	Method	GENSCAN
Start	456	End	505
GI	none	Score	.64
Exons	456..505		

Seq. No.	54555	Seq. ID	OJ000322_22.0419.C13
Gene No.	114413	Strand	-
Start	2441	End	2550
Name	OJ000322_22.0419.C13.o2.gs	Method	GENSCAN
Start	2441	End	2550
GI	none	Score	.58
Exons	2441..2550		

Seq. No.	54556	Seq. ID	OJ000322_22.0419.C14
Gene No.	114414	Strand	+
Start	99	End	344
Name	OJ000322_22.0419.C14.o1.gs	Method	GENSCAN
Start	99	End	344
GI	none	Score	.99
Exons	99..344		

Seq. No.	54556	Seq. ID	OJ000322_22.0419.C14
Gene No.	114415	Strand	+
Start	1147	End	9648
Name	OJ000322_22.0419.C14.o2.gs	Method	GENSCAN
Start	1147	End	9648
GI	none	Score	.5
Exons	1147..1535, 3584..3771, 8210..8321, 9182..9389, 9395..9648		

Seq. No.	54557	Seq. ID	OJ000322_22.0419.C15
Gene No.	114416	Strand	+
Start	374	End	2744
Name	OJ000322_22.0419.C15.o1.gs	Method	GENSCAN
Start	374	End	2744
GI	none	Score	.61
Exons	374..530, 714..892, 2012..2063, 2168..2486, 2645..2744		

Seq. No.	54557	Seq. ID	OJ000322_22.0419.C15
Gene No.	114416	Strand	+
Start	374	End	2744
Name	OJ000322_22.0419.C15.o1.np	Method	AAT/NAP
Start	1236	End	2744
GI	7487350	Score	340
Exons	1236..1277, 2194..2486, 2645..2744		
GI Descrip.	hypothetical protein T22F8.70 - Arabidopsis thaliana gi|4914429|emb|CAB43632.1| (AL050351) SEC14-like protein [Arabidopsis thaliana] gi|7270900|emb|CAB80580.1| (AL161594) SEC14-like protein [Arabidopsis thaliana]		

Seq. No.	54557	Seq. ID	OJ000322_22.0419.C15
Gene No.	114416	Strand	+
Start	374	End	2744
Name	OJ000322_22.0419.C15.o1.tw	Method	TBLASTX:Wheat
Start	2167	End	2333
GI	none	Score	172
Exons	2167..2277, 2167..2274, 2171..2293, 2273..2323, 2277..2333		

Seq. No.	54558	Seq. ID	OJ000322_22.0419.C17
Gene No.	114417	Strand	+
Start	6903	End	7059
Name	OJ000322_22.0419.C17.o1.np	Method	AAT/NAP
Start	6903	End	7059
GI	7363271	Score	105
Exons	6903..7059		
GI Descrip.	(AP001552) hypothetical protein [Oryza sativa]		

Seq. No.	54558	Seq. ID	OJ000322_22.0419.C17
Gene No.	114418	Strand	-
Start	2897	End	6452
Name	OJ000322_22.0419.C17.o1.gs	Method	GENSCAN
Start	2897	End	6452
GI	none	Score	.49
Exons	2897..3222, 3667..3868, 6022..6132, 6211..6452		

Seq. No.	54558	Seq. ID	OJ000322_22.0419.C17
Gene No.	114418	Strand	-
Start	2897	End	6452
Name	OJ000322_22.0419.C17.o1.gp	Method	AAT/GAP

Start	4712	End	4948
GI	57406_2.R1084	Score	368
Exons	4712..4948		
GI Descrip.	'6041757/gb|AC011806.1|AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence'		

Seq. No.	54558	Seq. ID	OJ000322_22.0419.C17
Gene No.	114418	Strand	-
Start	2897	End	6452
Name	OJ000322_22.0419.C17.o3.gp	Method	AAT/GAP
Start	5821	End	6311
GI	2311818	Score	479
Exons	5821..5944, 6022..6132, 6211..6311		

Seq. No.	54559	Seq. ID	OJ000322_22.0419.C18
Gene No.	114419	Strand	-
Start	574	End	1900
Name	OJ000322_22.0419.C18.o3.tm	Method	TBLASTX:Maize
Start	569	End	813
GI	none	Score	41
Exons	569..631, 601..813, 692..781		

Seq. No.	54559	Seq. ID	OJ000322_22.0419.C18
Gene No.	114419	Strand	-
Start	574	End	1900
Name	OJ000322_22.0419.C18.o1.gs	Method	GENSCAN
Start	574	End	1668
GI	none	Score	.58
Exons	574..1668		

Seq. No.	54559	Seq. ID	OJ000322_22.0419.C18
Gene No.	114419	Strand	-
Start	574	End	1900
Name	OJ000322_22.0419.C18.o1.np	Method	AAT/NAP
Start	577	End	1900
GI	4680179	Score	2180
Exons	577..1900		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	54559	Seq. ID	OJ000322_22.0419.C18
Gene No.	114419	Strand	-
Start	574	End	1900
Name	OJ000322_22.0419.C18.o3.tw	Method	TBLASTX:Wheat
Start	622	End	955
GI	none	Score	109
Exons	622..954, 686..955		

Seq. No.	54559	Seq. ID	OJ000322_22.0419.C18
Gene No.	114419	Strand	-
Start	574	End	1900
Name	OJ000322_22.0419.C18.o1.tm	Method	TBLASTX:Maize
Start	814	End	1401
GI	none	Score	148
Exons	814..1083, 815..1075, 830..1126, 1144..1242, 1145..1240, 1174..1242, 1240..1401, 1247..1393, 1249..1395		

Seq. No.	54559	Seq. ID	OJ000322_22.0419.C18
Gene No.	114419	Strand	-
Start	574	End	1900
Name	OJ000322_22.0419.C18.o1.tw	Method	TBLASTX:Wheat
Start	955	End	1581
GI	none	Score	349
Exons	955..1581, 956..1525		

Seq. No.	54559	Seq. ID	OJ000322_22.0419.C18
Gene No.	114419	Strand	-
Start	574	End	1900
Name	OJ000322_22.0419.C18.o2.tm	Method	TBLASTX:Maize
Start	1450	End	1740
GI	none	Score	174
Exons	1450..1653, 1454..1654, 1454..1660, 1654..1740, 1671..1739		

Seq. No.	54559	Seq. ID	OJ000322_22.0419.C18
Gene No.	114419	Strand	-
Start	574	End	1900
Name	OJ000322_22.0419.C18.o1.ts	Method	TBLASTX:Soybean
Start	1540	End	1799
GI	none	Score	88
Exons	1540..1656, 1541..1657, 1657..1794, 1671..1799		

Seq. No.	54559	Seq. ID	OJ000322_22.0419.C18
Gene No.	114419	Strand	-
Start	574	End	1900
Name	OJ000322_22.0419.C18.o2.tw	Method	TBLASTX:Wheat
Start	1588	End	1898
GI	none	Score	70
Exons	1588..1656, 1589..1657, 1592..1660, 1657..1842, 1658..1741, 1671..1898, 1680..1853		

Seq. No.	54560	Seq. ID	OJ000322_22.0419.C19
Gene No.	114420	Strand	-
Start	1	End	2934
Name	OJ000322_22.0419.C19.o1.np	Method	AAT/NAP
Start	1	End	2934
GI	6721517	Score	4283
Exons	1..2014, 2063..2814, 2894..2934		
GI Descrip.	(AP001072) Similar to polyprotein. (AF061282) [Oryza sativa]		

Seq. No.	54560	Seq. ID	OJ000322_22.0419.C19
Gene No.	114420	Strand	-
Start	1	End	2934
Name	OJ000322_22.0419.C19.o1.gs	Method	GENSCAN
Start	38	End	2879
GI	none	Score	.63
Exons	38..2634, 2733..2879		

Seq. No.	54560	Seq. ID	OJ000322_22.0419.C19
Gene No.	114420	Strand	-
Start	1	End	2934
Name	OJ000322_22.0419.C19.o1.tw	Method	TBLASTX:Wheat
Start	86	End	595
GI	none	Score	293
Exons	86..595, 177..563		

Seq. No.	54560	Seq. ID	OJ000322_22.0419.C19
Gene No.	114420	Strand	-
Start	1	End	2934
Name	OJ000322_22.0419.C19.o1.tm	Method	TBLASTX:Maize
Start	170	End	523
GI	none	Score	155
Exons	170..523, 185..481, 345..521		

Seq. No.	54560	Seq. ID	OJ000322_22.0419.C19
Gene No.	114420	Strand	-
Start	1	End	2934
Name	OJ000322_22.0419.C19.o2.ts	Method	TBLASTX:Soybean
Start	344	End	586
GI	none	Score	197
Exons	344..586		

Seq. No.	54560	Seq. ID	OJ000322_22.0419.C19
Gene No.	114420	Strand	-
Start	1	End	2934
Name	OJ000322_22.0419.C19.o2.tm	Method	TBLASTX:Maize
Start	560	End	1060
GI	none	Score	158
Exons	560..895, 881..1060		

Seq. No.	54560	Seq. ID	OJ000322_22.0419.C19
Gene No.	114420	Strand	-
Start	1	End	2934
Name	OJ000322_22.0419.C19.o3.tw	Method	TBLASTX:Wheat
Start	596	End	898
GI	none	Score	201
Exons	596..898, 597..860		

Seq. No.	54560	Seq. ID	OJ000322_22.0419.C19
Gene No.	114420	Strand	-
Start	1	End	2934
Name	OJ000322_22.0419.C19.o1.ts	Method	TBLASTX:Soybean
Start	610	End	1006
GI	none	Score	126
Exons	610..963, 611..970, 612..854, 974..1006	829..963, 893..967, 974..1006,	

Seq. No.	54560	Seq. ID	OJ000322_22.0419.C19
Gene No.	114420	Strand	-
Start	1	End	2934
Name	OJ000322_22.0419.C19.o2.tw	Method	TBLASTX:Wheat
Start	947	End	1433
GI	none	Score	315
Exons	947..1429, 990..1433		

Seq. No.	54560	Seq. ID	OJ000322_22.0419.C19
Gene No.	114420	Strand	-
Start	1	End	2934
Name	OJ000322_22.0419.C19.o3.tm	Method	TBLASTX:Maize
Start	1128	End	1420
GI	none	Score	152
Exons	1128..1319, 1130..1321, 1130..1420, 1347..1418		

Seq. No.	54560	Seq. ID	OJ000322_22.0419.C19
Gene No.	114420	Strand	-
Start	1	End	2934
Name	OJ000322_22.0419.C19.o4.tw	Method	TBLASTX:Wheat
Start	1604	End	1958
GI	none	Score	79
Exons	1604..1957, 1640..1774, 1863..1958		

Seq. No.	54560	Seq. ID	OJ000322_22.0419.C19
Gene No.	114420	Strand	-
Start	1	End	2934
Name	OJ000322_22.0419.C19.o4.tm	Method	TBLASTX:Maize
Start	1691	End	2011
GI	none	Score	209
Exons	1691..2011		

Seq. No.	54560	Seq. ID	OJ000322_22.0419.C19
Gene No.	114420	Strand	-
Start	1	End	2934
Name	OJ000322_22.0419.C19.o5.tm	Method	TBLASTX:Maize
Start	2357	End	2612
GI	none	Score	106
Exons	2357..2611, 2466..2612		

Seq. No.	54560	Seq. ID	OJ000322_22.0419.C19
Gene No.	114420	Strand	-
Start	1	End	2934
Name	OJ000322_22.0419.C19.o5.tw	Method	TBLASTX:Wheat
Start	2534	End	2896
GI	none	Score	57
Exons	2534..2611, 2605..2892, 2792..2896		

Seq. No.	54561	Seq. ID	OJ000322_22.0419.C20
Gene No.	114421	Strand	+
Start	878	End	2511
Name	OJ000322_22.0419.C20.o1.np	Method	AAT/NAP
Start	878	End	2511
GI	5295955	Score	286
Exons	878..981, 1524..1638, 2318..2511		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		

Seq. No.	54561	Seq. ID	OJ000322_22.0419.C20
Gene No.	114421	Strand	+
Start	878	End	2511
Name	OJ000322_22.0419.C20.o1.gs	Method	GENSCAN
Start	912	End	2465
GI	none	Score	.88
Exons	912..1049, 1524..1647, 2323..2465		

Seq. No.	54562	Seq. ID	OJ000322_22.0419.C21
Gene No.	114422	Strand	+
Start	1	End	829
Name	OJ000322_22.0419.C21.o1.np	Method	AAT/NAP
Start	1	End	829
GI	5295955	Score	402

Exons	1..208, 248..829		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		
Seq. No.	54562	Seq. ID	OJ000322_22.0419.C21
Gene No.	114423	Strand	-
Start	1813	End	2612
Name	OJ000322_22.0419.C21.o2.np	Method	AAT/NAP
Start	1813	End	2612
GI	7228438	Score	616
Exons	1813..2065, 2222..2612		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog (AC003981) [Oryza sativa]		
Seq. No.	54563	Seq. ID	OJ000322_22.0419.C23
Gene No.	114424	Strand	-
Start	1	End	1969
Name	OJ000322_22.0419.C23.o1.np	Method	AAT/NAP
Start	1	End	1969
GI	1351904	Score	1110
Exons	1..36, 485..788, 1290..1378, 1596..1969		
GI Descrip.	BIFUNCTIONAL ASPARTOKINASE/HOMOSERINE DEHYDROGENASE 1, CHLOROPLAST PRECURSOR (AK-HD 1) (AK-HSDH 1) [INCLUDES: ASPARTOKINASE ; HOMOSERINE DEHYDROGENASE] gi|500851 (L33912) aspartate kinase-homoserine dehydrogenase [Zea mays]		
Seq. No.	54563	Seq. ID	OJ000322_22.0419.C23
Gene No.	114424	Strand	-
Start	1	End	1969
Name	OJ000322_22.0419.C23.o1.ts	Method	TBLASTX:Soybean
Start	419	End	1934
GI	none	Score	38
Exons	419..487, 558..662, 559..681, 666..776, 675..791, 676..786, 1290..1391, 1291..1380, 1307..1381, 1593..1763, 1594..1929, 1597..1932, 1598..1933, 1818..1934		
Seq. No.	54563	Seq. ID	OJ000322_22.0419.C23
Gene No.	114424	Strand	-
Start	1	End	1969
Name	OJ000322_22.0419.C23.o1.tm	Method	TBLASTX:Maize
Start	469	End	1969
GI	none	Score	363
Exons	469..789, 486..791, 486..791, 665..793, 1290..1379, 1290..1391, 1291..1380, 1594..1968, 1597..1968, 1598..1969		
Seq. No.	54563	Seq. ID	OJ000322_22.0419.C23
Gene No.	114424	Strand	-
Start	1	End	1969
Name	OJ000322_22.0419.C23.o1.gs	Method	GENSCAN
Start	485	End	1920
GI	none	Score	.72
Exons	485..788, 1290..1378, 1596..1920		
Seq. No.	54564	Seq. ID	OJ000322_22.0419.C24
Gene No.	114425	Strand	+
Start	3805	End	6452

Name	OJ000322_22.0419.C24.o1.np	Method	AAT/NAP
Start	3524	End	3802
GI	5777620	Score	146
Exons	3524..3588, 3638..3802		
GI Descrip.	(AJ245900) CAA30378.1 protein [Oryza sativa]		

Seq. No.	54564	Seq. ID	OJ000322_22.0419.C24
Gene No.	114425	Strand	+
Start	3805	End	6452
Name	OJ000322_22.0419.C24.o3.gs	Method	GENSCAN
Start	3805	End	6452
GI	none	Score	.67
Exons	3805..3912, 4383..4467, 4723..4886, 5040..5226, 6298..6452		

Seq. No.	54564	Seq. ID	OJ000322_22.0419.C24
Gene No.	114426	Strand	-
Start	1678	End	2169
Name	OJ000322_22.0419.C24.o2.gs	Method	GENSCAN
Start	1678	End	2169
GI	none	Score	.72
Exons	1678..1818, 1854..2120, 2131..2169		

Seq. No.	54565	Seq. ID	OJ000322_22.0419.C25
Gene No.	114427	Strand	+
Start	596	End	1910
Name	OJ000322_22.0419.C25.o1.gs	Method	GENSCAN
Start	596	End	1910
GI	none	Score	.7
Exons	596..668, 1629..1752, 1881..1910		

Seq. No.	54565	Seq. ID	OJ000322_22.0419.C25
Gene No.	114428	Strand	+
Start	3347	End	16468
Name	OJ000322_22.0419.C25.o2.gs	Method	GENSCAN
Start	3347	End	10311
GI	none	Score	.48
Exons	3347..3496, 3731..3772, 3877..3931, 4565..4719, 6213..6289, 6752..6809, 7052..7246, 7673..7752, 8899..8935, 9993..10251, 10295..10311		

Seq. No.	54565	Seq. ID	OJ000322_22.0419.C25
Gene No.	114428	Strand	+
Start	3347	End	16468
Name	OJ000322_22.0419.C25.o3.np	Method	AAT/NAP
Start	5265	End	16468
GI	7340909	Score	133
Exons	5265..5391, 7733..7855, 10339..10657, 11007..11115, 16355..16468		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	54565	Seq. ID	OJ000322_22.0419.C25
Gene No.	114428	Strand	+
Start	3347	End	16468
Name	OJ000322_22.0419.C25.o3.gs	Method	GENSCAN
Start	11001	End	11639
GI	none	Score	.45
Exons	11001..11187, 11399..11532, 11541..11639		

Seq. No.	54565	Seq. ID	OJ000322_22.0419.C25
Gene No.	114429	Strand	+
Start	18634	End	21400
Name	OJ000322_22.0419.C25.o5.gs	Method	GENSCAN
Start	18634	End	21400
GI	none	Score	.54
Exons	18634..19098, 19908..19960, 20322..20346, 21383..21400		

Seq. No.	54565	Seq. ID	OJ000322_22.0419.C25
Gene No.	114430	Strand	-
Start	3193	End	4057
Name	OJ000322_22.0419.C25.o1.np	Method	AAT/NAP
Start	3193	End	4057
GI	6907086	Score	392
Exons	3193..4057		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	54565	Seq. ID	OJ000322_22.0419.C25
Gene No.	114431	Strand	-
Start	5052	End	18210
Name	OJ000322_22.0419.C25.o2.np	Method	AAT/NAP
Start	5052	End	13915
GI	4680186	Score	174
Exons	5052..5189, 5764..5928, 13888..13915		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	54565	Seq. ID	OJ000322_22.0419.C25
Gene No.	114431	Strand	-
Start	5052	End	18210
Name	OJ000322_22.0419.C25.o4.gs	Method	GENSCAN
Start	12427	End	18210
GI	none	Score	.64
Exons	12427..12603, 16419..16598, 16977..17271, 18143..18210		

Seq. No.	54565	Seq. ID	OJ000322_22.0419.C25
Gene No.	114432	Strand	
Start	18835	End	19062
Name	OJ000322_22.0419.C25.o1.tw	Method	TBLASTX:Wheat
Start	18835	End	19062
GI	none	Score	187
Exons	18835..19062, 18909..19040		

Seq. No.	54566	Seq. ID	OJ000322_22.0419.C26
Gene No.	114433	Strand	+
Start	1	End	911
Name	OJ000322_22.0419.C26.o1.np	Method	AAT/NAP
Start	1	End	860
GI	3056591	Score	198
Exons	1..69, 172..287, 541..860		
GI Descrip.	(AC004255) T1F9.12 [Arabidopsis thaliana]		

Seq. No.	54566	Seq. ID	OJ000322_22.0419.C26
Gene No.	114433	Strand	+
Start	1	End	911
Name	OJ000322_22.0419.C26.o1.gs	Method	GENSCAN
Start	172	End	911
GI	none	Score	.53

Exons	172..325, 570..911		
Seq. No.	54567	Seq. ID	OJ000322_22.0419.C29
Gene No.	114434	Strand	+
Start	2931	End	7157
Name	OJ000322_22.0419.C29.o1.gp	Method	AAT/GAP
Start	2931	End	3882
GI	none	Score	924
Exons	2931..3012, 3439..3882		
Seq. No.	54567	Seq. ID	OJ000322_22.0419.C29
Gene No.	114434	Strand	+
Start	2931	End	7157
Name	OJ000322_22.0419.C29.o1.gs	Method	GENSCAN
Start	3513	End	7157
GI	none	Score	1
Exons	3513..7157		
Seq. No.	54567	Seq. ID	OJ000322_22.0419.C29
Gene No.	114434	Strand	+
Start	2931	End	7157
Name	OJ000322_22.0419.C29.o1.np	Method	AAT/NAP
Start	3517	End	7154
GI	3953479	Score	2988
Exons	3517..3904, 4058..7154		
GI Descrip.	(AC002328) F22O2.24 [Arabidopsis thaliana]		
Seq. No.	54567	Seq. ID	OJ000322_22.0419.C29
Gene No.	114435	Strand	-
Start	6947	End	7239
Name	OJ000322_22.0419.C29.o2.tc	Method	TBLASTX:Cress
Start	3912	End	7079
GI	none	Score	52
Exons	3912..3968, 4092..4178, 4197..4247, 4329..4382, 4335..4382, 4426..4443, 4448..4537, 4449..4544, 4449..4544, 4458..4574, 4509..4565, 4563..4685, 4566..4703, 4566..4700, 4569..4688, 4569..4712, 4569..4703, 4569..4685, 4584..4685, 4587..4688, 4767..4844, 4767..4844, 4831..4872, 4845..5066, 4896..5003, 4896..5072, 4896..4994, 4896..5069, 4896..5066, 4899..5066, 4899..5084, 4905..5066, 4926..4994, 4944..5072, 5043..5108, 5082..5216, 5082..5357, 5088..5366, 5088..5384, 5088..5357, 5088..5234, 5091..5384, 5094..5297, 5094..5354, 5094..5357, 5100..5366, 5163..5357, 5175..5384, 5238..5366, 5531..5839, 5534..5707, 5544..5849, 5547..5645, 5547..5849, 5547..5702, 5547..5702, 5577..5795, 5580..5924, 5583..5855, 5583..5849, 5594..5713, 5594..5710, 5595..5777, 5595..5849, 5595..5861, 5595..5849, 5595..5849, 5595..5849, 5687..5848, 5736..5849, 5759..5848, 5801..5923, 5802..5942, 6726..6863, 6743..6862, 6930..7079		
Seq. No.	54567	Seq. ID	OJ000322_22.0419.C29
Gene No.	114435	Strand	-
Start	6947	End	7239
Name	OJ000322_22.0419.C29.o3.tw	Method	TBLASTX:Wheat
Start	4110	End	5930
GI	none	Score	58
Exons	4110..4178, 4569..4685, 4584..4703, 4839..5066, 4947..5066,		

5082..5285, 5094..5219, 5166..5369, 5592..5783, 5595..5900, 5880..5930

Seq. No.	54567	Seq. ID	OJ000322_22.0419.C29
Gene No.	114435	Strand	-
Start	6947	End	7239
Name	OJ000322_22.0419.C29.o2.tm	Method	TBLASTX:Maize
Start	4341	End	5990
GI	none	Score	58
Exons	4341..4382, 4341..4385, 4386..4457, 4398..4451, 4427..4684, 4458..4565, 4461..4685, 4569..4703, 4575..4685, 4584..4769, 4770..5066, 4770..4844, 4845..5003, 4899..5285, 5091..5417, 5094..5447, 5127..5366, 5247..5387, 5268..5366, 5441..5512, 5532..5705, 5595..5849, 5595..5789, 5616..5849, 5667..5990, 5667..5849, 5736..5849		

Seq. No.	54567	Seq. ID	OJ000322_22.0419.C29
Gene No.	114435	Strand	-
Start	6947	End	7239
Name	OJ000322_22.0419.C29.o2.ts	Method	TBLASTX:Soybean
Start	4449	End	5912
GI	none	Score	64
Exons	4449..4565, 4449..4586, 4455..4571, 4566..4685, 4569..4688, 4575..4685, 4584..4685, 4896..5066, 4896..5075, 4896..5072, 4899..5066, 4923..4994, 4947..5066, 5082..5216, 5082..5366, 5082..5447, 5088..5447, 5091..5411, 5091..5372, 5094..5354, 5096..5230, 5229..5384, 5522..5776, 5547..5702, 5574..5849, 5580..5870, 5583..5855, 5583..5849, 5594..5713, 5595..5912, 5595..5855, 5595..5849, 5600..5716, 5609..5704, 5649..5849, 5667..5852, 5753..5851, 5765..5851, 5801..5875		

Seq. No.	54567	Seq. ID	OJ000322_22.0419.C29
Gene No.	114435	Strand	-
Start	6947	End	7239
Name	OJ000322_22.0419.C29.o1.ts	Method	TBLASTX:Soybean
Start	6180	End	7090
GI	none	Score	1056
Exons	6180..6953, 6185..6274, 6190..6510, 6335..6943, 6969..7088, 6975..7076, 6989..7090		

Seq. No.	54567	Seq. ID	OJ000322_22.0419.C29
Gene No.	114435	Strand	-
Start	6947	End	7239
Name	OJ000322_22.0419.C29.o3.tm	Method	TBLASTX:Maize
Start	6210	End	6353
GI	none	Score	197
Exons	6210..6353, 6226..6351		

Seq. No.	54567	Seq. ID	OJ000322_22.0419.C29
Gene No.	114435	Strand	-
Start	6947	End	7239
Name	OJ000322_22.0419.C29.o2.tw	Method	TBLASTX:Wheat
Start	6234	End	6515
GI	none	Score	219
Exons	6234..6515		

Seq. No.	54567	Seq. ID	OJ000322_22.0419.C29

Gene No.	114435	Strand	-
Start	6947	End	7239
Name	OJ000322_22.0419.C29.o1.tc	Method	TBLASTX:Cress
Start	6237	End	6694
GI	none	Score	607
Exons	6237..6692, 6258..6692, 6338..6694, 6533..6694		

Seq. No.	54567	Seq. ID	OJ000322_22.0419.C29
Gene No.	114435	Strand	-
Start	6947	End	7239
Name	OJ000322_22.0419.C29.o1.tm	Method	TBLASTX:Maize
Start	6353	End	7085
GI	none	Score	116
Exons	6353..6493, 6358..6510, 6359..6886, 6360..6887, 6878..6949, 6879..6953, 6968..7069, 6969..7085, 6984..7085		

Seq. No.	54567	Seq. ID	OJ000322_22.0419.C29
Gene No.	114435	Strand	-
Start	6947	End	7239
Name	OJ000322_22.0419.C29.o1.tw	Method	TBLASTX:Wheat
Start	6521	End	6860
GI	none	Score	200
Exons	6521..6703, 6534..6740, 6737..6856, 6738..6860		

Seq. No.	54567	Seq. ID	OJ000322_22.0419.C29
Gene No.	114435	Strand	-
Start	6947	End	7239
Name	OJ000322_22.0419.C29.o2.gp	Method	AAT/GAP
Start	6947	End	7239
GI	49934_1.R1084	Score	563
Exons	6947..7239		
GI Descrip.	'3953479 2.0e-11 (AC002328) F22O2.24 [Arabidopsis thaliana]'		

Seq. No.	54568	Seq. ID	OJ000322_22.0419.C30
Gene No.	114436	Strand	+
Start	1	End	7836
Name	OJ000322_22.0419.C30.o1.np	Method	AAT/NAP
Start	1	End	7836
GI	7444451	Score	4557
Exons	1..2640, 2712..3066, 6579..7836		
GI Descrip.	probable gag/pol polyprotein - long-staminate rice retrotransposon retrofit gi|2586082|gb|AAB82754.1| (U72725) retrofit [Oryza longistaminata]		

Seq. No.	54568	Seq. ID	OJ000322_22.0419.C30
Gene No.	114436	Strand	+
Start	1	End	7836
Name	OJ000322_22.0419.C30.o1.gs	Method	GENSCAN
Start	116	End	6346
GI	none	Score	.4
Exons	116..287, 348..1027, 2113..3022, 3516..3643, 3851..4290, 4323..4538, 6287..6346		

Seq. No.	54568	Seq. ID	OJ000322_22.0419.C30
Gene No.	114436	Strand	+
Start	1	End	7836
Name	OJ000322_22.0419.C30.o1.gp	Method	AAT/GAP

Start	5108	End	5188
GI	LIB3434-017-P1-K1-F5	Score	88
Exons	5108..5188		
GI Descrip.	'5257255/dbj|AP000364.1|AP000364 5.0e-20 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	54568	Seq. ID	OJ000322_22.0419.C30
Gene No.	114436	Strand	+
Start	1	End	7836
Name	OJ000322_22.0419.C30.o2.gp	Method	AAT/GAP
Start	6312	End	6420
GI	uC-osf1cyp088b12b1	Score	152
Exons	6312..6420		
GI Descrip.	'5257255/dbj|AP000364.1|AP000364 3.0e-36 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	54568	Seq. ID	OJ000322_22.0419.C30
Gene No.	114437	Strand	-
Start	8483	End	8840
Name	OJ000322_22.0419.C30.o4.tm	Method	TBLASTX:Maize
Start	53	End	458
GI	none	Score	73
Exons	53..130, 64..141, 180..401, 181..402, 393..458, 394..456		

Seq. No.	54568	Seq. ID	OJ000322_22.0419.C30
Gene No.	114437	Strand	-
Start	8483	End	8840
Name	OJ000322_22.0419.C30.o6.tm	Method	TBLASTX:Maize
Start	787	End	1029
GI	none	Score	90
Exons	787..861, 790..876, 891..1028, 907..1029		

Seq. No.	54568	Seq. ID	OJ000322_22.0419.C30
Gene No.	114437	Strand	-
Start	8483	End	8840
Name	OJ000322_22.0419.C30.o2.tw	Method	TBLASTX:Wheat
Start	883	End	1197
GI	none	Score	225
Exons	883..1077, 901..1074, 1075..1197		

Seq. No.	54568	Seq. ID	OJ000322_22.0419.C30
Gene No.	114437	Strand	-
Start	8483	End	8840
Name	OJ000322_22.0419.C30.o2.ts	Method	TBLASTX:Soybean
Start	1306	End	1717
GI	none	Score	204
Exons	1306..1518, 1307..1522, 1547..1717, 1563..1691		

Seq. No.	54568	Seq. ID	OJ000322_22.0419.C30
Gene No.	114437	Strand	-
Start	8483	End	8840
Name	OJ000322_22.0419.C30.o1.tc	Method	TBLASTX:Cress
Start	1719	End	2171
GI	none	Score	150
Exons	1719..1916, 1739..1873, 1929..2171		

Seq. No.	54568	Seq. ID	OJ000322_22.0419.C30

Gene No.	114437	Strand	-
Start	8483	End	8840
Name	OJ000322_22.0419.C30.o4.ts	Method	TBLASTX:Soybean
Start	1740	End	2153
GI	none	Score	128
Exons	1740..1919, 1929..2153		

Seq. No.	54568	Seq. ID	OJ000322_22.0419.C30
Gene No.	114437	Strand	-
Start	8483	End	8840
Name	OJ000322_22.0419.C30.o3.tw	Method	TBLASTX:Wheat
Start	1830	End	2171
GI	none	Score	87
Exons	1830..1919, 1914..2171, 1955..1990, 2027..2167		

Seq. No.	54568	Seq. ID	OJ000322_22.0419.C30
Gene No.	114437	Strand	-
Start	8483	End	8840
Name	OJ000322_22.0419.C30.o5.tm	Method	TBLASTX:Maize
Start	1833	End	2150
GI	none	Score	87
Exons	1833..1934, 1929..2150, 2027..2146		

Seq. No.	54568	Seq. ID	OJ000322_22.0419.C30
Gene No.	114437	Strand	-
Start	8483	End	8840
Name	OJ000322_22.0419.C30.o7.tm	Method	TBLASTX:Maize
Start	2829	End	3074
GI	none	Score	191
Exons	2829..3074, 2840..3058		

Seq. No.	54568	Seq. ID	OJ000322_22.0419.C30
Gene No.	114437	Strand	-
Start	8483	End	8840
Name	OJ000322_22.0419.C30.o5.ts	Method	TBLASTX:Soybean
Start	2841	End	3065
GI	none	Score	72
Exons	2841..2903, 2930..3058, 2931..3065		

Seq. No.	54568	Seq. ID	OJ000322_22.0419.C30
Gene No.	114437	Strand	-
Start	8483	End	8840
Name	OJ000322_22.0419.C30.o4.tw	Method	TBLASTX:Wheat
Start	2969	End	6995
GI	none	Score	102
Exons	2969..3070, 2970..3059, 6599..6697, 6615..6818, 6626..6778, 6810..6995		

Seq. No.	54568	Seq. ID	OJ000322_22.0419.C30
Gene No.	114437	Strand	-
Start	8483	End	8840
Name	OJ000322_22.0419.C30.o3.ts	Method	TBLASTX:Soybean
Start	6600	End	6908
GI	none	Score	118
Exons	6600..6704, 6612..6692, 6726..6908, 6729..6782		

Seq. No.	54568	Seq. ID	OJ000322_22.0419.C30

Gene No.	114437	Strand	-
Start	8483	End	8840
Name	OJ000322_22.0419.C30.o1.tm	Method	TBLASTX:Maize
Start	6606	End	6998
GI	none	Score	353
Exons	6606..6998, 6626..6775		

Seq. No.	54568	Seq. ID	OJ000322_22.0419.C30
Gene No.	114437	Strand	-
Start	8483	End	8840
Name	OJ000322_22.0419.C30.o1.tw	Method	TBLASTX:Wheat
Start	6996	End	7423
GI	none	Score	207
Exons	6996..7214, 6997..7215, 7214..7423, 7216..7422		

Seq. No.	54568	Seq. ID	OJ000322_22.0419.C30
Gene No.	114437	Strand	-
Start	8483	End	8840
Name	OJ000322_22.0419.C30.o3.tm	Method	TBLASTX:Maize
Start	7107	End	7342
GI	none	Score	141
Exons	7107..7211, 7108..7218, 7126..7239, 7216..7314, 7217..7342, 7223..7342		

Seq. No.	54568	Seq. ID	OJ000322_22.0419.C30
Gene No.	114437	Strand	-
Start	8483	End	8840
Name	OJ000322_22.0419.C30.o1.ts	Method	TBLASTX:Soybean
Start	7214	End	7785
GI	none	Score	228
Exons	7214..7465, 7216..7458, 7461..7565, 7470..7562, 7564..7785, 7648..7776		

Seq. No.	54568	Seq. ID	OJ000322_22.0419.C30
Gene No.	114437	Strand	-
Start	8483	End	8840
Name	OJ000322_22.0419.C30.o2.tm	Method	TBLASTX:Maize
Start	7354	End	7779
GI	none	Score	108
Exons	7354..7458, 7355..7465, 7494..7568, 7567..7779, 7593..7676, 7609..7761		

Seq. No.	54568	Seq. ID	OJ000322_22.0419.C30
Gene No.	114437	Strand	-
Start	8483	End	8840
Name	OJ000322_22.0419.C30.o2.gs	Method	GENSCAN
Start	8483	End	8840
GI	none	Score	62
Exons	8483..8840		

Seq. No.	54569	Seq. ID	OJ000322_22.0419.C31
Gene No.	114438	Strand	+
Start	1	End	1335
Name	OJ000322_22.0419.C31.o1.np	Method	AAT/NAP
Start	1	End	1335
GI	6721512	Score	86
Exons	1..95, 1252..1335		

GI Descrip. (AP001072) hypothetical protein [Oryza sativa]

Seq. No.	54569	Seq. ID	OJ000322_22.0419.C31
Gene No.	114439	Strand	-
Start	178	End	9018
Name	OJ000322_22.0419.C31.o1.gs	Method	GENSCAN
Start	178	End	4205
GI	none	Score	.53
Exons	178..275, 1428..1536, 3049..3545, 3569..4205		

Seq. No.	54569	Seq. ID	OJ000322_22.0419.C31
Gene No.	114439	Strand	-
Start	178	End	9018
Name	OJ000322_22.0419.C31.o2.np	Method	AAT/NAP
Start	3091	End	5620
GI	4680500	Score	238
Exons	3091..3934, 5593..5620		
GI Descrip.	(AF119222) hypothetical protein [Oryza sativa]		

Seq. No.	54569	Seq. ID	OJ000322_22.0419.C31
Gene No.	114439	Strand	-
Start	178	End	9018
Name	OJ000322_22.0419.C31.o1.ts	Method	TBLASTX:Soybean
Start	3196	End	3677
GI	none	Score	107
Exons	3196..3369, 3412..3468, 3537..3677		

Seq. No.	54569	Seq. ID	OJ000322_22.0419.C31
Gene No.	114439	Strand	-
Start	178	End	9018
Name	OJ000322_22.0419.C31.o2.gs	Method	GENSCAN
Start	4667	End	9018
GI	none	Score	.42
Exons	4667..5174, 6344..6474, 6557..6711, 6900..6990, 7069..7238, 7322..7390, 8121..8238, 8317..8430, 8734..9018		

Seq. No.	54570	Seq. ID	OJ000322_22.0419.C32
Gene No.	114440	Strand	+
Start	141	End	2089
Name	OJ000322_22.0419.C32.o1.gs	Method	GENSCAN
Start	141	End	2089
GI	none	Score	.44
Exons	141..212, 1326..1448, 1980..2089		

Seq. No.	54570	Seq. ID	OJ000322_22.0419.C32
Gene No.	114440	Strand	+
Start	141	End	2089
Name	OJ000322_22.0419.C32.o1.gp	Method	AAT/GAP
Start	243	End	372
GI	uC-osflcyp013a06b1	Score	167
Exons	243..372		
GI Descrip.	'4538905/emb|CAB39642.1| 5.0e-36 (AL049482) putative protein [Arabidopsis thaliana]'		

Seq. No.	54570	Seq. ID	OJ000322_22.0419.C32
Gene No.	114441	Strand	+
Start	2165	End	2268

Name	OJ000322_22.0419.C32.o2.gp	Method	AAT/GAP
Start	2165	End	2268
GI	LIB3477-003-P1-K1-E9	Score	144
Exons	2165..2268		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	54571	Seq. ID	OJ000322_22.0419.C36
Gene No.	114442	Strand	-
Start	834	End	2031
Name	OJ000322_22.0419.C36.o1.gs	Method	GENSCAN
Start	834	End	1817
GI	none	Score	.86
Exons	834..1817		

Seq. No.	54571	Seq. ID	OJ000322_22.0419.C36
Gene No.	114442	Strand	-
Start	834	End	2031
Name	OJ000322_22.0419.C36.o1.tm	Method	TBLASTX:Maize
Start	1371	End	1988
GI	none	Score	73
Exons	1371..1652, 1683..1952, 1707..1988		

Seq. No.	54571	Seq. ID	OJ000322_22.0419.C36
Gene No.	114442	Strand	-
Start	834	End	2031
Name	OJ000322_22.0419.C36.o1.ts	Method	TBLASTX:Soybean
Start	1707	End	2031
GI	none	Score	97
Exons	1707..2030, 1711..2031		

Seq. No.	54572	Seq. ID	OJ000322_22.0419.C38
Gene No.	114443	Strand	+
Start	698	End	1361
Name	OJ000322_22.0419.C38.o1.gs	Method	GENSCAN
Start	698	End	1361
GI	none	Score	.51
Exons	698..875, 963..1061, 1324..1361		

Seq. No.	54572	Seq. ID	OJ000322_22.0419.C38
Gene No.	114444	Strand	+
Start	4639	End	9862
Name	OJ000322_22.0419.C38.o2.gs	Method	GENSCAN
Start	4639	End	9862
GI	none	Score	.46
Exons	4639..5420, 5783..5896, 6470..6744, 6934..8450, 8597..8678, 9011..9235, 9657..9862		

Seq. No.	54572	Seq. ID	OJ000322_22.0419.C38
Gene No.	114444	Strand	+
Start	4639	End	9862
Name	OJ000322_22.0419.C38.o1.np	Method	AAT/NAP
Start	6555	End	9201
GI	7486048	Score	1856
Exons	6555..6722, 6894..9201		
GI Descrip.	hypothetical protein F23K16.160 - Arabidopsis thaliana		

gi|5042169|emb|CAB44688.1| (AL078620) putative protein [Arabidopsis thaliana] gi|7270937|emb|CAB80616.1| (AL161595) putative protein [Arabidopsis thaliana]

Seq. No.	54572	Seq. ID	OJ000322_22.0419.C38
Gene No.	114444	Strand	+
Start	4639	End	9862
Name	OJ000322_22.0419.C38.o2.tc	Method	TBLASTX:Cress
Start	6975	End	8572
GI	none	Score	87
Exons	6975..7124, 6978..7112, 6978..7208, 6981..7376, 7142..7435, 7143..7427, 7144..7212, 7209..7370, 7302..7736, 7448..7678, 7509..7694, 7599..7919, 7746..7901, 8103..8336, 8103..8336, 8118..8345, 8147..8278, 8205..8432, 8444..8572		

Seq. No.	54572	Seq. ID	OJ000322_22.0419.C38
Gene No.	114444	Strand	+
Start	4639	End	9862
Name	OJ000322_22.0419.C38.o1.tm	Method	TBLASTX:Maize
Start	6978	End	9213
GI	none	Score	137
Exons	6978..7520, 6996..7142, 7167..7439, 7176..7439, 7350..7742, 7424..7681, 7434..7742, 7500..7844, 7647..8033, 7745..7984, 7746..8147, 7749..8084, 7811..7981, 8052..8372, 8175..8426, 8423..8674, 8438..8815, 8446..8670, 8470..8814, 8471..8638, 8648..8722, 8800..9213		

Seq. No.	54572	Seq. ID	OJ000322_22.0419.C38
Gene No.	114444	Strand	+
Start	4639	End	9862
Name	OJ000322_22.0419.C38.o1.tw	Method	TBLASTX:Wheat
Start	6978	End	8727
GI	none	Score	104
Exons	6978..7112, 6978..7061, 7028..7099, 7143..7367, 7283..7636, 7284..7670, 7290..7670, 7587..7973, 7865..7933, 7890..8276, 8192..8368, 8193..8432, 8470..8577, 8471..8578, 8494..8727, 8495..8722		

Seq. No.	54572	Seq. ID	OJ000322_22.0419.C38
Gene No.	114444	Strand	+
Start	4639	End	9862
Name	OJ000322_22.0419.C38.o2.ts	Method	TBLASTX:Soybean
Start	6996	End	8508
GI	none	Score	79
Exons	6996..7112, 7136..7312, 7143..7385, 7287..7457, 7355..7624, 7509..7667, 7593..8000, 7617..7787, 7619..8005, 7893..8297, 8196..8465, 8470..8508		

Seq. No.	54572	Seq. ID	OJ000322_22.0419.C38
Gene No.	114444	Strand	+
Start	4639	End	9862
Name	OJ000322_22.0419.C38.o1.tc	Method	TBLASTX:Cress
Start	7920	End	9171
GI	none	Score	80
Exons	7920..8081, 8492..8521, 8573..8815, 8665..8814, 8806..9171, 8811..9116		

Seq. No.	54572	Seq. ID	OJ000322_22.0419.C38
Gene No.	114444	Strand	+
Start	4639	End	9862
Name	OJ000322_22.0419.C38.o1.ts	Method	TBLASTX:Soybean
Start	8662	End	9180
GI	none	Score	123
Exons	8662..8751, 8666..8815, 8806..9180, 8977..9159		

Seq. No.	54573	Seq. ID	OJ000302_28.0419.C1
Gene No.	114445	Strand	+
Start	1	End	844
Name	OJ000302_28.0419.C1.o1.gp	Method	AAT/GAP
Start	1	End	844
GI	25165_1.R1084	Score	344
Exons	1..131, 784..844		
GI Descrip.	'4530126/gb|AAD21872.1| 4.0e-15 (AF078082) receptor-like protein kinase homolog RK20-1 [Phaseolus vulgaris]'		

Seq. No.	54573	Seq. ID	OJ000302_28.0419.C1
Gene No.	114445	Strand	+
Start	1	End	844
Name	OJ000302_28.0419.C1.o1.gs	Method	GENSCAN
Start	45	End	369
GI	none	Score	.7
Exons	45..131, 177..369		

Seq. No.	54574	Seq. ID	OJ000302_28.0419.C3
Gene No.	114446	Strand	+
Start	413	End	1276
Name	OJ000302_28.0419.C3.o1.gs	Method	GENSCAN
Start	413	End	1276
GI	none	Score	.76
Exons	413..533, 1089..1276		

Seq. No.	54575	Seq. ID	OJ000302_28.0419.C4
Gene No.	114447	Strand	+
Start	1	End	3542
Name	OJ000302_28.0419.C4.o1.np	Method	AAT/NAP
Start	1	End	3539
GI	7488195	Score	911
Exons	1..276, 303..379, 1151..1215, 2098..2211, 2298..2508, 2602..2839, 2939..3089, 3192..3475, 3509..3539		
GI Descrip.	probable serine/threonine-specific protein kinase (EC 2.7.1.-) F21P8.70 - Arabidopsis thaliana gi|3021270|emb|CAA18465.1| (AL022347) serine/threonine kinase-like protein [Arabidopsis thaliana] gi|7269165|emb|CAB79273.1| (AL161558) serine/threonine kinase-like protein [Arabidopsis thaliana]		

Seq. No.	54575	Seq. ID	OJ000302_28.0419.C4
Gene No.	114447	Strand	+
Start	1	End	3542
Name	OJ000302_28.0419.C4.o1.gs	Method	GENSCAN
Start	80	End	1037
GI	none	Score	.55
Exons	80..379, 1011..1037		

Seq. No.	54575	Seq. ID	OJ000302_28.0419.C4

Gene No.	114447	Strand	+
Start	1	End	3542
Name	OJ000302_28.0419.C4.o1.gp	Method	AAT/GAP
Start	1902	End	2393
GI	3107580	Score	546
Exons	1902..1986, 2081..2211, 2298..2393		
GI Descrip.	4530126/gb|AAD21872.1| 4.0e-15 (AF078082) receptor-like protein kinase homolog RK20-1 [Phaseolus vulgaris]		

Seq. No.	54575	Seq. ID	OJ000302_28.0419.C4
Gene No.	114447	Strand	+
Start	1	End	3542
Name	OJ000302_28.0419.C4.o2.gp	Method	AAT/GAP
Start	2649	End	3295
GI	LIB3433-022-P1-K1-C1	Score	822
Exons	2649..2839, 2939..3089, 3192..3295		
GI Descrip.	'3021270/emb|CAA18465.1| 6.0e-49 (AL022347) serine/threonine kinase-like protein [Arabidopsis thaliana]'		

Seq. No.	54575	Seq. ID	OJ000302_28.0419.C4
Gene No.	114447	Strand	+
Start	1	End	3542
Name	OJ000302_28.0419.C4.o2.gs	Method	GENSCAN
Start	2670	End	3542
GI	none	Score	.96
Exons	2670..2839, 2939..3089, 3192..3542		

Seq. No.	54575	Seq. ID	OJ000302_28.0419.C4
Gene No.	114448	Strand	+
Start	3469	End	3777
Name	OJ000302_28.0419.C4.o3.gp	Method	AAT/GAP
Start	3469	End	3777
GI	6024981	Score	557
Exons	3469..3777		

Seq. No.	54575	Seq. ID	OJ000302_28.0419.C4
Gene No.	114449	Strand	+
Start	4812	End	6260
Name	OJ000302_28.0419.C4.o2.np	Method	AAT/NAP
Start	4806	End	6260
GI	5020219	Score	482
Exons	4806..5800, 6206..6260		
GI Descrip.	(AF149919) wax synthase [Simmondsia chinensis]		

Seq. No.	54575	Seq. ID	OJ000302_28.0419.C4
Gene No.	114449	Strand	+
Start	4812	End	6260
Name	OJ000302_28.0419.C4.o3.gs	Method	GENSCAN
Start	4812	End	5876
GI	none	Score	.85
Exons	4812..5876		

Seq. No.	54575	Seq. ID	OJ000302_28.0419.C4
Gene No.	114450	Strand	-
Start	1	End	7161
Name	OJ000302_28.0419.C4.o3.np	Method	AAT/NAP
Start	1	End	7133

GI	7486419	Score	140
Exons	1..196, 5592..5861, 6288..6427, 7022..7133		
GI Descrip.	hypothetical protein F4D11.90 - Arabidopsis thaliana gi|3063699|emb|CAA18590.1| (AL022537) putative protein [Arabidopsis thaliana] gi|7270175|emb|CAB79988.1| (AL161581) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	54575	Seq. ID	OJ000302_28.0419.C4
Gene No.	114450	Strand	-
Start	1	End	7161
Name	OJ000302_28.0419.C4.o1.tc	Method	TBLASTX:Cress
Start	110	End	3410
GI	none	Score	68
Exons	110..169, 1863..1952, 2098..2211, 2147..2212, 2295..2507, 2312..2506, 2319..2507, 2600..2836, 2601..2837, 2901..3026, 2943..3095, 2945..3064, 3204..3410, 3266..3400		

Seq. No.	54575	Seq. ID	OJ000302_28.0419.C4
Gene No.	114450	Strand	-
Start	1	End	7161
Name	OJ000302_28.0419.C4.o1.ts	Method	TBLASTX:Soybean
Start	2095	End	3542
GI	none	Score	124
Exons	2095..2211, 2295..2507, 2297..2494, 2600..2836, 2601..2837, 2622..2840, 2901..3026, 2939..3085, 2940..3086, 3195..3410, 3266..3400, 3488..3535, 3489..3542		

Seq. No.	54575	Seq. ID	OJ000302_28.0419.C4
Gene No.	114450	Strand	-
Start	1	End	7161
Name	OJ000302_28.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	2104	End	3362
GI	none	Score	111
Exons	2104..2211, 2295..2507, 2297..2503, 2310..2507, 2613..2837, 2625..2804, 2939..3049, 2940..3083, 3195..3362, 3266..3361		

Seq. No.	54575	Seq. ID	OJ000302_28.0419.C4
Gene No.	114450	Strand	-
Start	1	End	7161
Name	OJ000302_28.0419.C4.o2.tw	Method	TBLASTX:Wheat
Start	2295	End	2663
GI	none	Score	226
Exons	2295..2507, 2297..2503, 2565..2663		

Seq. No.	54575	Seq. ID	OJ000302_28.0419.C4
Gene No.	114450	Strand	-
Start	1	End	7161
Name	OJ000302_28.0419.C4.o1.tw	Method	TBLASTX:Wheat
Start	2663	End	3087
GI	none	Score	234
Exons	2663..2836, 2664..2837, 2676..2837, 2755..2838, 2939..3046, 2940..3071, 2944..3087		

Seq. No.	54575	Seq. ID	OJ000302_28.0419.C4
Gene No.	114450	Strand	-
Start	1	End	7161
Name	OJ000302_28.0419.C4.o4.gs	Method	GENSCAN

Start	6545	End	7161
GI	none	Score	.59
Exons	6545..6651, 6981..7161		

Seq. No.	54576	Seq. ID	OJ000302_28.0419.C6
Gene No.	114451	Strand	+
Start	195	End	349
Name	OJ000302_28.0419.C6.o1.gs	Method	GENSCAN
Start	195	End	349
GI	none	Score	.98
Exons	195..349		

Seq. No.	54576	Seq. ID	OJ000302_28.0419.C6
Gene No.	114452	Strand	-
Start	2086	End	2314
Name	OJ000302_28.0419.C6.o2.gs	Method	GENSCAN
Start	2086	End	2314
GI	none	Score	.47
Exons	2086..2130, 2225..2314		

Seq. No.	54577	Seq. ID	OJ000302_28.0419.C8
Gene No.	114453	Strand	+
Start	674	End	2542
Name	OJ000302_28.0419.C8.o1.np	Method	AAT/NAP
Start	674	End	2542
GI	7484821	Score	815
Exons	674..727, 1211..1991, 2062..2542		
GI Descrip.	beta-1,3-glucanase homolog F10M23.170 - Arabidopsis thaliana gi|4455206|emb|CAB36529.1| (AL035440) putative beta-1, 3-glucanase [Arabidopsis thaliana] gi|7269535|emb|CAB79538.1| (AL161565) putative beta-1, 3-glucanase [Arabidopsis thaliana]		

Seq. No.	54577	Seq. ID	OJ000302_28.0419.C8
Gene No.	114453	Strand	+
Start	674	End	2542
Name	OJ000302_28.0419.C8.o1.gp	Method	AAT/GAP
Start	1935	End	2533
GI	15827_1.R1084	Score	1099
Exons	1935..2533		
GI Descrip.	'4455206/emb|CAB36529.1| 1.0e-27 (AL035440) putative beta-1, 3-glucanase [Arabidopsis thaliana]'		

Seq. No.	54577	Seq. ID	OJ000302_28.0419.C8
Gene No.	114454	Strand	+
Start	11462	End	12625
Name	OJ000302_28.0419.C8.o3.np	Method	AAT/NAP
Start	11462	End	12625
GI	6907086	Score	1166
Exons	11462..12230, 12289..12625		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	54577	Seq. ID	OJ000302_28.0419.C8
Gene No.	114455	Strand	-
Start	9241	End	9351
Name	OJ000302_28.0419.C8.o2.gp	Method	AAT/GAP
Start	9241	End	9351
GI	LIB3475-004-P1-K2-A5	Score	159

Exons	9241..9351		
GI Descrip.	'5777612/emb|AJ245900.1|OSA245900 1.0e-94 Oryza sativa chromosome 4 BAC q3037-207F1 complete genome'		
Seq. No.	54577	Seq. ID	OJ000302_28.0419.C8
Gene No.	114456	Strand	-
Start	9381	End	11042
Name	OJ000302_28.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	1202	End	2331
GI	none	Score	194
Exons	1202..1318, 1214..1423, 1255..1395, 1396..1689, 1406..1696, 1696..1827, 1697..1828, 1700..1828, 1835..1972, 2066..2140, 2074..2139, 2140..2331, 2141..2275		

Seq. No.	54577	Seq. ID	OJ000302_28.0419.C8
Gene No.	114456	Strand	-
Start	9381	End	11042
Name	OJ000302_28.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	1202	End	2251
GI	none	Score	172
Exons	1202..1423, 1379..1837, 1483..1518, 1549..1815, 1667..1828, 1835..1951, 2144..2251		

Seq. No.	54577	Seq. ID	OJ000302_28.0419.C8
Gene No.	114456	Strand	-
Start	9381	End	11042
Name	OJ000302_28.0419.C8.o2.tw	Method	TBLASTX:Wheat
Start	1202	End	1528
GI	none	Score	177
Exons	1202..1378, 1223..1429, 1464..1526, 1472..1528, 1487..1525		

Seq. No.	54577	Seq. ID	OJ000302_28.0419.C8
Gene No.	114456	Strand	-
Start	9381	End	11042
Name	OJ000302_28.0419.C8.o1.tc	Method	TBLASTX:Cress
Start	1226	End	2886
GI	none	Score	116
Exons	1226..1420, 1445..1516, 1606..1815, 1607..1816, 2144..2257, 2300..2365, 2378..2509, 2656..2718, 2734..2886		

Seq. No.	54577	Seq. ID	OJ000302_28.0419.C8
Gene No.	114456	Strand	-
Start	9381	End	11042
Name	OJ000302_28.0419.C8.o1.tw	Method	TBLASTX:Wheat
Start	2282	End	2889
GI	none	Score	230
Exons	2282..2461, 2296..2460, 2425..2517, 2426..2518, 2441..2524, 2630..2815, 2631..2816, 2632..2817, 2781..2885, 2782..2889		

Seq. No.	54577	Seq. ID	OJ000302_28.0419.C8
Gene No.	114456	Strand	-
Start	9381	End	11042
Name	OJ000302_28.0419.C8.o2.ts	Method	TBLASTX:Soybean
Start	2297	End	2888
GI	none	Score	71
Exons	2297..2371, 2368..2508, 2369..2527, 2653..2721, 2727..2888, 2728..2886		

Seq. No.	54577	Seq. ID	OJ000302_28.0419.C8
Gene No.	114456	Strand	-
Start	9381	End	11042
Name	OJ000302_28.0419.C8.o2.tm	Method	TBLASTX:Maize
Start	2333	End	2889
GI	none	Score	205
Exons	2333..2506, 2335..2505, 2465..2524, 2476..2520, 2617..2862, 2647..2820, 2649..2861, 2827..2889		

Seq. No.	54577	Seq. ID	OJ000302_28.0419.C8
Gene No.	114456	Strand	-
Start	9381	End	11042
Name	OJ000302_28.0419.C8.o2.np	Method	AAT/NAP
Start	9381	End	11042
GI	4539658	Score	106
Exons	9381..9536, 10969..11042		
GI Descrip.	(AF061282) serine carboxypeptidase-like protein [Sorghum bicolor]		

Seq. No.	54577	Seq. ID	OJ000302_28.0419.C8
Gene No.	114456	Strand	-
Start	9381	End	11042
Name	OJ000302_28.0419.C8.o3.gp	Method	AAT/GAP
Start	9523	End	10030
GI	38782_1.R1084	Score	773
Exons	9523..10030		
GI Descrip.	'6069643/dbj|AP000616.1|AP000616 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	54578	Seq. ID	OJ000302_28.0419.C9
Gene No.	114457	Strand	-
Start	1062	End	8717
Name	OJ000302_28.0419.C9.o1.np	Method	AAT/NAP
Start	1062	End	4304
GI	4530126	Score	750
Exons	1062..1391, 1543..1690, 1787..2024, 2404..2614, 2708..2842, 2908..3055, 3386..3669, 3700..3785, 3910..4304		
GI Descrip.	(AF078082) receptor-like protein kinase homolog RK20-1 [Phaseolus vulgaris]		

Seq. No.	54578	Seq. ID	OJ000302_28.0419.C9
Gene No.	114457	Strand	-
Start	1062	End	8717
Name	OJ000302_28.0419.C9.o1.tc	Method	TBLASTX:Cress
Start	1183	End	2818
GI	none	Score	74
Exons	1183..1308, 1209..1331, 1585..1686, 1586..1678, 1791..1910, 1791..2012, 1843..2037, 1844..1987, 2405..2617, 2409..2615, 2703..2792, 2708..2818		

Seq. No.	54578	Seq. ID	OJ000302_28.0419.C9
Gene No.	114457	Strand	-
Start	1062	End	8717
Name	OJ000302_28.0419.C9.o2.tm	Method	TBLASTX:Maize
Start	1230	End	2798
GI	none	Score	135

Exons	1230..1292, 2318..2617, 2394..2615, 2411..2617, 2689..2748, 2703..2798, 2708..2797		
Seq. No.	54578	Seq. ID	OJ000302_28.0419.C9
Gene No.	114457	Strand	-
Start	1062	End	8717
Name	OJ000302_28.0419.C9.o2.ts	Method	TBLASTX:Soybean
Start	1230	End	2818
GI	none	Score	133
Exons	1230..1331, 2405..2617, 2406..2615, 2708..2818		
Seq. No.	54578	Seq. ID	OJ000302_28.0419.C9
Gene No.	114457	Strand	-
Start	1062	End	8717
Name	OJ000302_28.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	1295	End	1948
GI	none	Score	41
Exons	1295..1318, 1317..1391, 1347..1394, 1540..1689, 1577..1690, 1578..1691, 1786..1944, 1787..1939, 1840..1947, 1844..1948		
Seq. No.	54578	Seq. ID	OJ000302_28.0419.C9
Gene No.	114457	Strand	-
Start	1062	End	8717
Name	OJ000302_28.0419.C9.o2.np	Method	AAT/NAP
Start	1340	End	4315
GI	7488193	Score	635
Exons	1340..1399, 1548..1690, 1787..2024, 2404..2614, 2708..2852, 3210..3691, 3894..4315		
GI Descrip.	probable serine/threonine-specific protein kinase (EC 2.7.1.-) F21P8.30 - Arabidopsis thaliana gi|3021266|emb|CAA18461.1| (AL022347) serine/threonine kinase-like protein [Arabidopsis thaliana] gi|3292840|emb|CAA19830.1| (AL031018) serine/threonine kinase-like protein [Arabidopsis thaliana] gi|7269161|emb|CAB79269.1| (AL161558) serine/threonine kinase-like protein [Arabidops		
Seq. No.	54578	Seq. ID	OJ000302_28.0419.C9
Gene No.	114457	Strand	-
Start	1062	End	8717
Name	OJ000302_28.0419.C9.o1.gs	Method	GENSCAN
Start	1543	End	8717
GI	none	Score	.57
Exons	1543..1690, 1787..2024, 2404..2614, 2708..2829, 2908..2961, 3355..3455, 3486..3785, 3880..4362, 6132..6667, 7158..7262, 7295..7439, 7642..7664, 7794..7820, 8258..8418, 8669..8717		
Seq. No.	54578	Seq. ID	OJ000302_28.0419.C9
Gene No.	114457	Strand	-
Start	1062	End	8717
Name	OJ000302_28.0419.C9.o1.ts	Method	TBLASTX:Soybean
Start	1586	End	2026
GI	none	Score	83
Exons	1586..1696, 1586..1699, 1588..1740, 1840..2025, 1844..2026		
Seq. No.	54578	Seq. ID	OJ000302_28.0419.C9
Gene No.	114457	Strand	-
Start	1062	End	8717

Name	OJ000302_28.0419.C9.o1.tw	Method	TBLASTX:Wheat
Start	1910	End	2739
GI	none	Score	63
Exons	1910..2038, 1912..2037, 2400..2615, 2403..2600, 2405..2617, 2492..2617, 2692..2739		

Seq. No.	54578	Seq. ID	OJ000302_28.0419.C9
Gene No.	114457	Strand	-
Start	1062	End	8717
Name	OJ000302_28.0419.C9.o1.gp	Method	AAT/GAP
Start	2488	End	2787
GI	LIB3432-036-P2-K1-F11	Score	329
Exons	2488..2614, 2708..2787		
GI Descrip.	'3080384/emb|CAA18704.1| 3.0e-17 (AL022603) serine/threonine protein kinase [Arabidopsis thaliana] >gi_3402759_emb_CAA20205.1_ (AL031187) serine/threonine protein kinase-like protein [Arabidopsis thaliana]'		

Seq. No.	54579	Seq. ID	OJ000302_28.0419.C10
Gene No.	114458	Strand	-
Start	1731	End	2013
Name	OJ000302_28.0419.C10.o1.gs	Method	GENSCAN
Start	1731	End	2013
GI	none	Score	.86
Exons	1731..2013		

Seq. No.	54580	Seq. ID	OJ000302_28.0419.C11
Gene No.	114459	Strand	+
Start	2361	End	2747
Name	OJ000302_28.0419.C11.o2.gp	Method	AAT/GAP
Start	2361	End	2607
GI	3761181	Score	438
Exons	2361..2607		
GI Descrip.	4521193/dbj|AB013450.1|AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene		

Seq. No.	54580	Seq. ID	OJ000302_28.0419.C11
Gene No.	114459	Strand	+
Start	2361	End	2747
Name	OJ000302_28.0419.C11.o1.np	Method	AAT/NAP
Start	2505	End	2747
GI	7106512	Score	132
Exons	2505..2564, 2638..2747		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	54581	Seq. ID	OJ000302_28.0419.C12
Gene No.	114460	Strand	+
Start	1	End	2564
Name	OJ000302_28.0419.C12.o1.np	Method	AAT/NAP
Start	1	End	2468
GI	7106512	Score	1729
Exons	1..559, 778..1224, 1464..2468		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	54581	Seq. ID	OJ000302_28.0419.C12

Gene No.	114460	Strand	+
Start	1	End	2564
Name	OJ000302_28.0419.C12.o1.gs	Method	GENSCAN
Start	33	End	2564
GI	none	Score	.6
Exons	33..532, 1373..1842, 2019..2084, 2095..2564		

Seq. No.	54581	Seq. ID	OJ000302_28.0419.C12
Gene No.	114461	Strand	+
Start	4633	End	5803
Name	OJ000302_28.0419.C12.o1.gp	Method	AAT/GAP
Start	4633	End	4879
GI	3761181	Score	434
Exons	4633..4879		
GI Descrip.	4521193/dbj|AB013450.1|AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene		

Seq. No.	54581	Seq. ID	OJ000302_28.0419.C12
Gene No.	114461	Strand	+
Start	4633	End	5803
Name	OJ000302_28.0419.C12.o3.np	Method	AAT/NAP
Start	4777	End	5803
GI	7106512	Score	207
Exons	4777..4836, 4910..5025, 5313..5470, 5727..5803		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	54581	Seq. ID	OJ000302_28.0419.C12
Gene No.	114462	Strand	-
Start	2864	End	3008
Name	OJ000302_28.0419.C12.o2.np	Method	AAT/NAP
Start	2856	End	3008
GI	7106513	Score	262
Exons	2856..3008		
GI Descrip.	(AP001278) hypothetical protein [Oryza sativa]		

Seq. No.	54581	Seq. ID	OJ000302_28.0419.C12
Gene No.	114462	Strand	-
Start	2864	End	3008
Name	OJ000302_28.0419.C12.o2.gs	Method	GENSCAN
Start	2864	End	3008
GI	none	Score	.52
Exons	2864..2874, 2879..3008		

Seq. No.	54581	Seq. ID	OJ000302_28.0419.C12
Gene No.	114463	Strand	-
Start	4880	End	5311
Name	OJ000302_28.0419.C12.o3.gs	Method	GENSCAN
Start	4880	End	5311
GI	none	Score	.41
Exons	4880..5100, 5215..5311		

Seq. No.	54582	Seq. ID	OJ000302_28.0419.C13
Gene No.	114464	Strand	+
Start	1206	End	5854
Name	OJ000302_28.0419.C13.o1.gp	Method	AAT/GAP
Start	1206	End	2377

GI	52477_1.R1084	Score	960
Exons	1206..1299, 1957..2377		
GI Descrip.	'4521193/dbj|AB013450.1|AB013450 3.0e-40 Oryza sativa DNA, similar sequence to Pib gene'		

Seq. No.	54582	Seq. ID	OJ000302_28.0419.C13
Gene No.	114464	Strand	+
Start	1206	End	5854
Name	OJ000302_28.0419.C13.o1.gs	Method	GENSCAN
Start	1227	End	5854
GI	none	Score	.92
Exons	1227..1299, 1891..3261, 3360..3614, 5784..5854		

Seq. No.	54582	Seq. ID	OJ000302_28.0419.C13
Gene No.	114464	Strand	+
Start	1206	End	5854
Name	OJ000302_28.0419.C13.o1.np	Method	AAT/NAP
Start	1896	End	3648
GI	4662638	Score	846
Exons	1896..2696, 2772..3090, 3373..3648		
GI Descrip.	(AC007233) putative beta-1,3-glucanase [Arabidopsis thaliana]		

Seq. No.	54582	Seq. ID	OJ000302_28.0419.C13
Gene No.	114464	Strand	+
Start	1206	End	5854
Name	OJ000302_28.0419.C13.o2.gp	Method	AAT/GAP
Start	3556	End	4181
GI	3767843	Score	506
Exons	3556..3614, 3950..4181		

Seq. No.	54582	Seq. ID	OJ000302_28.0419.C13
Gene No.	114465	Strand	+
Start	8556	End	9754
Name	OJ000302_28.0419.C13.o1.ts	Method	TBLASTX:Soybean
Start	1950	End	9737
GI	none	Score	220
Exons	1950..2210, 1955..2197, 2208..2696, 2219..2632, 2879..2983, 2880..2987, 2892..2987, 8706..8963, 8711..8908, 8969..9310, 8975..9013, 8976..9440, 9116..9355, 9168..9395, 9624..9737		

Seq. No.	54582	Seq. ID	OJ000302_28.0419.C13
Gene No.	114465	Strand	+
Start	8556	End	9754
Name	OJ000302_28.0419.C13.o1.tm	Method	TBLASTX:Maize
Start	1952	End	9754
GI	none	Score	256
Exons	1952..2206, 1953..2210, 1953..2210, 2199..2435, 2219..2428, 2291..2353, 2435..2632, 2436..2654, 2439..2633, 2775..2876, 2783..2875, 2876..3004, 2877..3005, 2877..3020, 8571..8615, 8572..8616, 8697..8963, 8708..8962, 8969..9169, 8975..9187, 8976..9191, 9191..9448, 9192..9419, 9570..9614, 9621..9719, 9638..9706, 9703..9753, 9704..9754		

Seq. No.	54582	Seq. ID	OJ000302_28.0419.C13
Gene No.	114465	Strand	+
Start	8556	End	9754
Name	OJ000302_28.0419.C13.o2.tw	Method	TBLASTX:Wheat

Start	1953	End	9021
GI	none	Score	191
Exons	1953..2117, 1955..2116, 1956..2165, 2063..2122, 2121..2207, 2212..2259, 2216..2257, 2217..2267, 8557..8625, 8559..8624, 8709..8873, 8711..8872, 8732..8878, 8877..8963, 8973..9020, 8973..9020, 8974..9021		

Seq. No.	54582	Seq. ID	OJ000302_28.0419.C13
Gene No.	114465	Strand	+
Start	8556	End	9754
Name	OJ000302_28.0419.C13.o1.tc	Method	TBLASTX:Cress
Start	1959	End	9713
GI	none	Score	172
Exons	1959..2216, 2208..2255, 2219..2260, 2342..2500, 2346..2696, 2880..2999, 3027..3092, 3105..3239, 3383..3445, 3461..3616, 8715..8963, 9096..9410, 9113..9310, 9117..9389, 9624..9713		

Seq. No.	54582	Seq. ID	OJ000302_28.0419.C13
Gene No.	114465	Strand	+
Start	8556	End	9754
Name	OJ000302_28.0419.C13.o1.tw	Method	TBLASTX:Wheat
Start	3002	End	3629
GI	none	Score	231
Exons	3002..3187, 3003..3188, 3021..3188, 3152..3250, 3153..3251, 3154..3267, 3356..3544, 3358..3543, 3509..3613, 3512..3613, 3513..3629		

Seq. No.	54582	Seq. ID	OJ000302_28.0419.C13
Gene No.	114465	Strand	+
Start	8556	End	9754
Name	OJ000302_28.0419.C13.o2.tm	Method	TBLASTX:Maize
Start	3020	End	3613
GI	none	Score	249
Exons	3020..3232, 3021..3233, 3023..3238, 3025..3234, 3192..3251, 3332..3595, 3332..3580, 3364..3594, 3547..3612, 3548..3613		

Seq. No.	54582	Seq. ID	OJ000302_28.0419.C13
Gene No.	114465	Strand	+
Start	8556	End	9754
Name	OJ000302_28.0419.C13.o2.ts	Method	TBLASTX:Soybean
Start	3024	End	3613
GI	none	Score	68
Exons	3024..3098, 3095..3244, 3096..3254, 3380..3448, 3454..3585, 3455..3613		

Seq. No.	54582	Seq. ID	OJ000302_28.0419.C13
Gene No.	114465	Strand	+
Start	8556	End	9754
Name	OJ000302_28.0419.C13.o2.gs	Method	GENSCAN
Start	8556	End	9612
GI	none	Score	.67
Exons	8556..9495, 9523..9612		

Seq. No.	54582	Seq. ID	OJ000302_28.0419.C13
Gene No.	114465	Strand	+
Start	8556	End	9754
Name	OJ000302_28.0419.C13.o3.gp	Method	AAT/GAP

Start	8571	End	9041
GI	427626	Score	715
Exons	8571..8631, 8713..9041		
GI Descrip.	4097948 5.0e-16 (U72255) beta-1,3-glucanase precursor [Oryza sativa]		

Seq. No.	54582	Seq. ID	OJ000302_28.0419.C13
Gene No.	114465	Strand	+
Start	8556	End	9754
Name	OJ000302_28.0419.C13.o2.np	Method	AAT/NAP
Start	8712	End	9754
GI	7269834	Score	554
Exons	8712..9414, 9448..9498, 9529..9754		
GI Descrip.	(AL161574) beta-1, 3-glucanase-like protein [Arabidopsis thaliana]		

Seq. No.	54583	Seq. ID	OJ000302_28.0419.C14
Gene No.	114466	Strand	+
Start	1	End	894
Name	OJ000302_28.0419.C14.o1.np	Method	AAT/NAP
Start	1	End	894
GI	7487744	Score	171
Exons	1..197, 855..894		
GI Descrip.	hypothetical protein T6G15.150 - Arabidopsis thaliana gi|4678386|emb|CAB41118.1| (AL049656) putative protein [Arabidopsis thaliana] gi|7268063|emb|CAB78402.1| (AL161536) putative protein [Arabidopsis thaliana]		

Seq. No.	54583	Seq. ID	OJ000302_28.0419.C14
Gene No.	114466	Strand	+
Start	1	End	894
Name	OJ000302_28.0419.C14.o2.np	Method	AAT/NAP
Start	1	End	618
GI	4662638	Score	233
Exons	1..41, 351..618		
GI Descrip.	(AC007233) putative beta-1,3-glucanase [Arabidopsis thaliana]		

Seq. No.	54583	Seq. ID	OJ000302_28.0419.C14
Gene No.	114466	Strand	+
Start	1	End	894
Name	OJ000302_28.0419.C14.o1.tm	Method	TBLASTX:Maize
Start	3	End	585
GI	none	Score	93
Exons	3..71, 4..75, 77..193, 78..194, 147..206, 310..564, 348..563, 522..584, 523..585		

Seq. No.	54583	Seq. ID	OJ000302_28.0419.C14
Gene No.	114466	Strand	+
Start	1	End	894
Name	OJ000302_28.0419.C14.o1.tc	Method	TBLASTX:Cress
Start	4	End	585
GI	none	Score	75
Exons	4..66, 87..197, 349..585, 352..558		

Seq. No.	54583	Seq. ID	OJ000302_28.0419.C14
Gene No.	114466	Strand	+
Start	1	End	894

Name	OJ000302_28.0419.C14.o1.tw	Method	TBLASTX:Wheat
Start	4	End	585
GI	none	Score	90
Exons	4..75, 19..72, 77..142, 78..143, 107..199, 108..200, 327..506, 328..513, 341..508, 391..513, 477..581, 478..585, 485..583		

Seq. No.	54583	Seq. ID	OJ000302_28.0419.C14
Gene No.	114466	Strand	+
Start	1	End	894
Name	OJ000302_28.0419.C14.o1.ts	Method	TBLASTX:Soybean
Start	71	End	584
GI	none	Score	64
Exons	71..184, 78..209, 313..417, 423..584, 424..582		

Seq. No.	54583	Seq. ID	OJ000302_28.0419.C14
Gene No.	114466	Strand	+
Start	1	End	894
Name	OJ000302_28.0419.C14.o1.gs	Method	GENSCAN
Start	79	End	822
GI	none	Score	.55
Exons	79..216, 449..583, 722..822		

Seq. No.	54583	Seq. ID	OJ000302_28.0419.C14
Gene No.	114466	Strand	+
Start	1	End	894
Name	OJ000302_28.0419.C14.o1.gp	Method	AAT/GAP
Start	425	End	894
GI	3767610	Score	597
Exons	425..583, 722..894		

Seq. No.	54584	Seq. ID	OJ000302_28.0419.C15
Gene No.	114467	Strand	-
Start	477	End	1226
Name	OJ000302_28.0419.C15.o1.gs	Method	GENSCAN
Start	477	End	1226
GI	none	Score	.77
Exons	477..571, 577..672, 843..917, 1091..1226		

Seq. No.	54585	Seq. ID	OJ000302_28.0419.C26
Gene No.	114468	Strand	+
Start	1	End	1247
Name	OJ000302_28.0419.C26.o1.np	Method	AAT/NAP
Start	1	End	351
GI	6561943	Score	66
Exons	1..28, 133..214, 316..351		
GI Descrip.	(AL132964) putative protein [Arabidopsis thaliana]		

Seq. No.	54585	Seq. ID	OJ000302_28.0419.C26
Gene No.	114468	Strand	+
Start	1	End	1247
Name	OJ000302_28.0419.C26.o1.gs	Method	GENSCAN
Start	55	End	1247
GI	none	Score	.52
Exons	55..214, 327..469, 1044..1247		

Seq. No.	54585	Seq. ID	OJ000302_28.0419.C26
Gene No.	114469	Strand	-

Start	1	End	2470
Name	OJ000302_28.0419.C26.o2.np	Method	AAT/NAP
Start	1	End	2347
GI	7106522	Score	138
Exons	1..149, 2013..2347		
GI Descrip.	(AP001278) Similar to Arabidopsis thaliana chromosome II BAC F14M4 genomic sequence, unknown protein. (AC004411) [Oryza sativa]		

Seq. No.	54585	Seq. ID	OJ000302_28.0419.C26
Gene No.	114469	Strand	-
Start	1	End	2470
Name	OJ000302_28.0419.C26.o2.gs	Method	GENSCAN
Start	1962	End	2470
GI	none	Score	.54
Exons	1962..2470		

Seq. No.	54585	Seq. ID	OJ000302_28.0419.C26
Gene No.	114470	Strand	-
Start	2585	End	2693
Name	OJ000302_28.0419.C26.o1.tm	Method	TBLASTX:Maize
Start	2013	End	2328
GI	none	Score	117
Exons	2013..2102, 2169..2309, 2170..2328		

Seq. No.	54585	Seq. ID	OJ000302_28.0419.C26
Gene No.	114470	Strand	-
Start	2585	End	2693
Name	OJ000302_28.0419.C26.o1.ts	Method	TBLASTX:Soybean
Start	2013	End	2328
GI	none	Score	100
Exons	2013..2105, 2169..2309, 2170..2328		

Seq. No.	54585	Seq. ID	OJ000302_28.0419.C26
Gene No.	114470	Strand	-
Start	2585	End	2693
Name	OJ000302_28.0419.C26.o1.gp	Method	AAT/GAP
Start	2585	End	2693
GI	5816518	Score	151
Exons	2585..2693		
GI Descrip.	4521193/dbj|AB013450.1|AB013450 3.0e-40 Oryza sativa DNA, similar sequence to Pib gene		

Seq. No.	54586	Seq. ID	OJ000302_28.0419.C30
Gene No.	114471	Strand	+
Start	1	End	742
Name	OJ000302_28.0419.C30.o1.np	Method	AAT/NAP
Start	1	End	739
GI	7488193	Score	402
Exons	1..93, 205..355, 437..739		
GI Descrip.	probable serine/threonine-specific protein kinase (EC 2.7.1.-) F21P8.30 - Arabidopsis thaliana gi|3021266|emb|CAA18461.1| (AL022347) serine/threonine kinase-like protein [Arabidopsis thaliana] gi|3292840|emb|CAA19830.1| (AL031018) serine/threonine kinase-like protein [Arabidopsis thaliana] gi|7269161|emb|CAB79269.1| (AL161558) serine/threonine kinase-like protein [Arabidops		

Seq. No.	54586	Seq. ID	OJ000302_28.0419.C30
Gene No.	114471	Strand	+
Start	1	End	742
Name	OJ000302_28.0419.C30.o1.gs	Method	GENSCAN
Start	48	End	742
GI	none	Score	.52
Exons	48..100, 205..355, 437..742		

Seq. No.	54586	Seq. ID	OJ000302_28.0419.C30
Gene No.	114472	Strand	+
Start	2211	End	2510
Name	OJ000302_28.0419.C30.o1.tc	Method	TBLASTX:Cress
Start	2	End	646
GI	none	Score	94
Exons	2..91, 10..90, 209..385, 211..315, 449..646, 469..624		

Seq. No.	54586	Seq. ID	OJ000302_28.0419.C30
Gene No.	114472	Strand	+
Start	2211	End	2510
Name	OJ000302_28.0419.C30.o1.tw	Method	TBLASTX:Wheat
Start	2	End	355
GI	none	Score	101
Exons	2..91, 10..90, 205..312, 206..355		

Seq. No.	54586	Seq. ID	OJ000302_28.0419.C30
Gene No.	114472	Strand	+
Start	2211	End	2510
Name	OJ000302_28.0419.C30.o1.ts	Method	TBLASTX:Soybean
Start	8	End	742
GI	none	Score	95
Exons	8..91, 10..90, 205..312, 206..355, 428..643, 434..616, 668..742		

Seq. No.	54586	Seq. ID	OJ000302_28.0419.C30
Gene No.	114472	Strand	+
Start	2211	End	2510
Name	OJ000302_28.0419.C30.o1.tm	Method	TBLASTX:Maize
Start	13	End	540
GI	none	Score	97
Exons	13..93, 14..91, 14..94, 204..350, 205..357, 206..358, 427..540, 437..535, 439..540		

Seq. No.	54586	Seq. ID	OJ000302_28.0419.C30
Gene No.	114472	Strand	+
Start	2211	End	2510
Name	OJ000302_28.0419.C30.o2.gs	Method	GENSCAN
Start	2211	End	2510
GI	none	Score	.5
Exons	2211..2510		

Seq. No.	54587	Seq. ID	OJ000302_28.0419.C31
Gene No.	114473	Strand	+
Start	172	End	345
Name	OJ000302_28.0419.C31.o1.gs	Method	GENSCAN
Start	172	End	345
GI	none	Score	.44
Exons	172..345		

Seq. No.	54587	Seq. ID	OJ000302_28.0419.C31
Gene No.	114474	Strand	+
Start	2801	End	12652
Name	OJ000302_28.0419.C31.o1.np	Method	AAT/NAP
Start	2801	End	12652
GI	7488193	Score	285
Exons	2801..2879, 3723..4171, 4287..4473, 7157..7226, 8044..8193, 8307..8434, 12629..12652		
GI Descrip.	probable serine/threonine-specific protein kinase (EC 2.7.1.-) F21P8.30 - Arabidopsis thaliana gi|3021266|emb|CAA18461.1| (AL022347) serine/threonine kinase-like protein [Arabidopsis thaliana] gi|3292840|emb|CAA19830.1| (AL031018) serine/threonine kinase-like protein [Arabidopsis thaliana] gi|7269161|emb|CAB79269.1| (AL161558) serine/threonine kinase-like protein [Arabidops		

Seq. No.	54587	Seq. ID	OJ000302_28.0419.C31
Gene No.	114474	Strand	+
Start	2801	End	12652
Name	OJ000302_28.0419.C31.o4.gs	Method	GENSCAN
Start	10356	End	12550
GI	none	Score	.66
Exons	10356..10389, 11086..11132, 11398..11579, 12226..12550		

Seq. No.	54587	Seq. ID	OJ000302_28.0419.C31
Gene No.	114474	Strand	+
Start	2801	End	12652
Name	OJ000302_28.0419.C31.o2.np	Method	AAT/NAP
Start	10805	End	11567
GI	4680183	Score	188
Exons	10805..10873, 11476..11567		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	54587	Seq. ID	OJ000302_28.0419.C31
Gene No.	114475	Strand	-
Start	2038	End	5939
Name	OJ000302_28.0419.C31.o2.gs	Method	GENSCAN
Start	2038	End	5939
GI	none	Score	.71
Exons	2038..2090, 3653..3844, 3862..4215, 4251..4555, 4668..4899, 5870..5939		

Seq. No.	54587	Seq. ID	OJ000302_28.0419.C31
Gene No.	114476	Strand	-
Start	6685	End	8227
Name	OJ000302_28.0419.C31.o3.gs	Method	GENSCAN
Start	6685	End	8227
GI	none	Score	.55
Exons	6685..6834, 7401..7663, 7840..8227		

Seq. No.	54588	Seq. ID	OJ000302_28.0419.C32
Gene No.	114477	Strand	+
Start	1	End	10278
Name	OJ000302_28.0419.C32.o1.np	Method	AAT/NAP
Start	1	End	2993
GI	7488195	Score	725

Exons	1..30, 952..1159, 1262..1499, 1584..1734, 1852..2055, 2871..2993		
GI Descrip.	probable serine/threonine-specific protein kinase (EC 2.7.1.-) F21P8.70 - Arabidopsis thaliana gi|3021270|emb|CAA18465.1| (AL022347) serine/threonine kinase-like protein [Arabidopsis thaliana] gi|7269165|emb|CAB79273.1| (AL161558) serine/threonine kinase-like protein [Arabidopsis thaliana]		
Seq. No.	54588	Seq. ID	OJ000302_28.0419.C32
Gene No.	114477	Strand	+
Start	1	End	10278
Name	OJ000302_28.0419.C32.o1.gs	Method	GENSCAN
Start	952	End	10278
GI	none	Score	.54
Exons	952..1214, 1584..1734, 1969..2120, 2330..2585, 2918..3036, 3076..3389, 3432..3609, 4168..4300, 6624..6743, 8026..8172, 8459..8560, 9611..9871, 9980..10120, 10177..10278		
Seq. No.	54588	Seq. ID	OJ000302_28.0419.C32
Gene No.	114477	Strand	+
Start	1	End	10278
Name	OJ000302_28.0419.C32.o3.np	Method	AAT/NAP
Start	1268	End	2164
GI	7327813	Score	267
Exons	1268..1499, 1584..1741, 1871..2164		
GI Descrip.	(AL161946) receptor like protein kinase [Arabidopsis thaliana]		
Seq. No.	54588	Seq. ID	OJ000302_28.0419.C32
Gene No.	114477	Strand	+
Start	1	End	10278
Name	OJ000302_28.0419.C32.o4.np	Method	AAT/NAP
Start	8953	End	10121
GI	5091507	Score	151
Exons	8953..8994, 9683..9807, 10005..10121		
GI Descrip.	(AB023482) Hypothetical protein [Oryza sativa]		
Seq. No.	54588	Seq. ID	OJ000302_28.0419.C32
Gene No.	114478	Strand	+
Start	10910	End	11571
Name	OJ000302_28.0419.C32.o2.gs	Method	GENSCAN
Start	10910	End	11571
GI	none	Score	.69
Exons	10910..11143, 11167..11571		
Seq. No.	54588	Seq. ID	OJ000302_28.0419.C32
Gene No.	114479	Strand	-
Start	11854	End	13183
Name	OJ000302_28.0419.C32.o1.tc	Method	TBLASTX:Cress
Start	954	End	12344
GI	none	Score	225
Exons	954..1157, 955..1158, 955..1158, 1260..1481, 1260..1496, 1261..1497, 1570..1713, 1587..1691, 1858..2016, 3819..3938, 3836..3973, 3840..4019, 3931..3975, 4095..4208, 4100..4210, 4100..4210, 4241..4264, 12276..12344		
Seq. No.	54588	Seq. ID	OJ000302_28.0419.C32
Gene No.	114479	Strand	-
Start	11854	End	13183

Name	OJ000302_28.0419.C32.o2.tw	Method	TBLASTX:Wheat
Start	954	End	4142
GI	none	Score	227
Exons	954..1193, 955..1158, 1261..1323, 3815..3958, 3822..3989, 3837..3956, 4098..4142		

Seq. No.	54588	Seq. ID	OJ000302_28.0419.C32
Gene No.	114479	Strand	-
Start	11854	End	13183
Name	OJ000302_28.0419.C32.o1.tm	Method	TBLASTX:Maize
Start	954	End	4345
GI	none	Score	232
Exons	954..1157, 955..1158, 1261..1497, 1281..1496, 1286..1498, 1336..1497, 1569..1604, 1570..1605, 3807..3974, 3810..3974, 4098..4208, 4244..4345		

Seq. No.	54588	Seq. ID	OJ000302_28.0419.C32
Gene No.	114479	Strand	-
Start	11854	End	13183
Name	OJ000302_28.0419.C32.o1.ts	Method	TBLASTX:Soybean
Start	955	End	12332
GI	none	Score	234
Exons	955..1185, 963..1154, 974..1159, 1257..1496, 1261..1497, 1570..1731, 1572..1691, 1573..1722, 1855..2016, 3775..3807, 3836..3961, 3840..4019, 3843..3974, 4101..4208, 4241..4264, 12276..12332		

Seq. No.	54588	Seq. ID	OJ000302_28.0419.C32
Gene No.	114479	Strand	-
Start	11854	End	13183
Name	OJ000302_28.0419.C32.o1.tw	Method	TBLASTX:Wheat
Start	1323	End	4264
GI	none	Score	226
Exons	1323..1499, 1324..1500, 1560..1694, 1570..1728, 4143..4208, 4235..4264		

Seq. No.	54588	Seq. ID	OJ000302_28.0419.C32
Gene No.	114479	Strand	-
Start	11854	End	13183
Name	OJ000302_28.0419.C32.o2.tm	Method	TBLASTX:Maize
Start	1617	End	2025
GI	none	Score	47
Exons	1617..1709, 1617..1733, 1618..1728, 1701..1736, 1708..1737, 1851..2015, 1852..2016, 1852..2025, 1854..2018		

Seq. No.	54588	Seq. ID	OJ000302_28.0419.C32
Gene No.	114479	Strand	-
Start	11854	End	13183
Name	OJ000302_28.0419.C32.o3.gs	Method	GENSCAN
Start	11854	End	13183
GI	none	Score	.61
Exons	11854..12080, 12152..12295, 13138..13183		

Seq. No.	54589	Seq. ID	OJ000302_28.0419.C33
Gene No.	114480	Strand	+
Start	1249	End	7440
Name	OJ000302_28.0419.C33.o1.gs	Method	GENSCAN

Start	1249	End	7244
GI	none	Score	.81
Exons	1249..1291, 2628..2751, 2807..2833, 3663..3832, 4015..4196, 4291..5049, 5802..6159, 6247..6446, 6805..6881, 7143..7244		

Seq. No.	54589	Seq. ID	OJ000302_28.0419.C33
Gene No.	114480	Strand	+
Start	1249	End	7440
Name	OJ000302_28.0419.C33.o1.tm	Method	TBLASTX:Maize
Start	3774	End	4494
GI	none	Score	87
Exons	3774..3833, 3775..3834, 3978..4196, 4023..4199, 4100..4216, 4281..4454, 4282..4455, 4282..4455, 4456..4494		

Seq. No.	54589	Seq. ID	OJ000302_28.0419.C33
Gene No.	114480	Strand	+
Start	1249	End	7440
Name	OJ000302_28.0419.C33.o1.np	Method	AAT/NAP
Start	4002	End	7440
GI	7327825	Score	458
Exons	4002..4196, 4291..4373, 4401..4529, 4647..4949, 5013..5081, 5747..6159, 6247..6446, 6805..6881, 7143..7247, 7423..7440		
GI Descrip.	(AL161946) putative protein [Arabidopsis thaliana]		

Seq. No.	54589	Seq. ID	OJ000302_28.0419.C33
Gene No.	114480	Strand	+
Start	1249	End	7440
Name	OJ000302_28.0419.C33.o3.tm	Method	TBLASTX:Maize
Start	4555	End	4995
GI	none	Score	92
Exons	4555..4644, 4559..4693, 4563..4658, 4648..4743, 4651..4770, 4670..4765, 4822..4947, 4822..4947, 4924..4995, 4948..4995		

Seq. No.	54589	Seq. ID	OJ000302_28.0419.C33
Gene No.	114480	Strand	+
Start	1249	End	7440
Name	OJ000302_28.0419.C33.o2.tm	Method	TBLASTX:Maize
Start	6016	End	6873
GI	none	Score	206
Exons	6016..6165, 6017..6157, 6223..6321, 6228..6383, 6237..6383, 6246..6419, 6793..6873		

Seq. No.	54590	Seq. ID	OJ000302_28.0419.C34
Gene No.	114481	Strand	+
Start	985	End	1203
Name	OJ000302_28.0419.C34.o1.gs	Method	GENSCAN
Start	985	End	1203
GI	none	Score	.83
Exons	985..1203		

Seq. No.	54590	Seq. ID	OJ000302_28.0419.C34
Gene No.	114482	Strand	+
Start	1579	End	2695
Name	OJ000302_28.0419.C34.o2.gs	Method	GENSCAN
Start	1579	End	2695
GI	none	Score	.77
Exons	1579..1674, 2204..2340, 2560..2695		

Seq. No.	54590	Seq. ID	OJ000302_28.0419.C34
Gene No.	114483	Strand	-
Start	3405	End	3774
Name	OJ000302_28.0419.C34.o3.gs	Method	GENSCAN
Start	3405	End	3774
GI	none	Score	.49
Exons	3405..3530, 3677..3774		

Seq. No.	54591	Seq. ID	OJ000302_28.0419.C35
Gene No.	114484	Strand	+
Start	1481	End	1551
Name	OJ000302_28.0419.C35.o1.gs	Method	GENSCAN
Start	1481	End	1551
GI	none	Score	.94
Exons	1481..1551		

Seq. No.	54591	Seq. ID	OJ000302_28.0419.C35
Gene No.	114485	Strand	-
Start	1788	End	5457
Name	OJ000302_28.0419.C35.o1.np	Method	AAT/NAP
Start	1788	End	5457
GI	5852176	Score	951
Exons	1788..1998, 2275..2443, 2910..2940, 3035..3526, 3581..3765, 3852..4046, 4927..5148, 5230..5457		
GI Descrip.	(AL117265) zhb0006.1 [Oryza sativa]		

Seq. No.	54591	Seq. ID	OJ000302_28.0419.C35
Gene No.	114485	Strand	-
Start	1788	End	5457
Name	OJ000302_28.0419.C35.o2.gs	Method	GENSCAN
Start	3121	End	5113
GI	none	Score	.6
Exons	3121..3534, 3536..3756, 3909..4046, 4272..4802, 4996..5113		

Seq. No.	54591	Seq. ID	OJ000302_28.0419.C35
Gene No.	114485	Strand	-
Start	1788	End	5457
Name	OJ000302_28.0419.C35.o1.tw	Method	TBLASTX:Wheat
Start	3515	End	3754
GI	none	Score	79
Exons	3515..3754, 3593..3754		

Seq. No.	54591	Seq. ID	OJ000302_28.0419.C35
Gene No.	114485	Strand	-
Start	1788	End	5457
Name	OJ000302_28.0419.C35.o1.tc	Method	TBLASTX:Cress
Start	3557	End	5062
GI	none	Score	62
Exons	3557..3751, 3557..3754, 4342..4527, 4567..4878, 4925..5062		

Seq. No.	54592	Seq. ID	OJ000302_28.0419.C40
Gene No.	114486	Strand	+
Start	701	End	1080
Name	OJ000302_28.0419.C40.o1.gs	Method	GENSCAN
Start	701	End	1080
GI	none	Score	.49

Exons 701..925, 1031..1080

Seq. No.	54592	Seq. ID	OJ000302_28.0419.C40
Gene No.	114486	Strand	+
Start	701	End	1080
Name	OJ000302_28.0419.C40.o1.gp	Method	AAT/GAP
Start	956	End	1080
GI	uC-osflcyp014b03b1	Score	229
Exons	956..1080		
GI Descrip.	'4521193/dbj|AB013450.1|AB013450 3.0e-40 Oryza sativa DNA, similar sequence to Pib gene'		

Seq. No.	54593	Seq. ID	OJ000112_20.0426.C3
Gene No.	114487	Strand	+
Start	10801	End	12798
Name	OJ000112_20.0426.C3.o4.np	Method	AAT/NAP
Start	10801	End	12798
GI	6587816	Score	387
Exons	10801..11495, 12504..12672, 12725..12798		
GI Descrip.	(AC010924) Contains similarity to gb|AJ009696 wall-associated kinase 1 from Arabidopsis thaliana and contains a protein kinase PF|00069 domain.		

Seq. No.	54593	Seq. ID	OJ000112_20.0426.C3
Gene No.	114488	Strand	+
Start	15500	End	16599
Name	OJ000112_20.0426.C3.o5.np	Method	AAT/NAP
Start	15500	End	16599
GI	4680182	Score	566
Exons	15500..15856, 15902..16435, 16462..16599		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	54593	Seq. ID	OJ000112_20.0426.C3
Gene No.	114489	Strand	-
Start	1	End	699
Name	OJ000112_20.0426.C3.o1.np	Method	AAT/NAP
Start	1	End	699
GI	7489803	Score	406
Exons	1..699		
GI Descrip.	pol protein homolog - maize retrotransposon Opie-2 gi|3645899|gb|AAC49502.1| (U68408) 5' end not determined experimentally [Zea mays]		

Seq. No.	54593	Seq. ID	OJ000112_20.0426.C3
Gene No.	114490	Strand	-
Start	657	End	4385
Name	OJ000112_20.0426.C3.o2.np	Method	AAT/NAP
Start	657	End	4385
GI	4416301	Score	549
Exons	657..820, 1289..1972, 2006..2786, 4361..4385		
GI Descrip.	(AF105716) gag protein [Zea mays]		

Seq. No.	54593	Seq. ID	OJ000112_20.0426.C3
Gene No.	114490	Strand	-
Start	657	End	4385
Name	OJ000112_20.0426.C3.o3.np	Method	AAT/NAP
Start	1094	End	4063

GI	7489737	Score	593
Exons	1094..1308, 1394..2784, 4007..4063		
GI Descrip.	gag protein homolog - maize retrotransposon Opie-2 gi|3645898|gb|AAC49501.1| (U68408) in-frame stop codon; possibly a post-transposition mutation [Zea mays]		

Seq. No.	54593	Seq. ID	OJ000112_20.0426.C3
Gene No.	114491	Strand	-
Start	4509	End	4889
Name	OJ000112_20.0426.C3.o2.tm	Method	TBLASTX:Maize
Start	384	End	788
GI	none	Score	65
Exons	384..509, 407..541, 424..690, 425..685, 609..704, 710..787, 714..788		

Seq. No.	54593	Seq. ID	OJ000112_20.0426.C3
Gene No.	114491	Strand	-
Start	4509	End	4889
Name	OJ000112_20.0426.C3.o2.tw	Method	TBLASTX:Wheat
Start	439	End	669
GI	none	Score	72
Exons	439..669, 455..583, 635..664		

Seq. No.	54593	Seq. ID	OJ000112_20.0426.C3
Gene No.	114491	Strand	-
Start	4509	End	4889
Name	OJ000112_20.0426.C3.o3.tm	Method	TBLASTX:Maize
Start	2201	End	2602
GI	none	Score	68
Exons	2201..2602, 2351..2461		

Seq. No.	54593	Seq. ID	OJ000112_20.0426.C3
Gene No.	114491	Strand	-
Start	4509	End	4889
Name	OJ000112_20.0426.C3.o1.tw	Method	TBLASTX:Wheat
Start	2360	End	2755
GI	none	Score	64
Exons	2360..2752, 2655..2753, 2657..2755		

Seq. No.	54593	Seq. ID	OJ000112_20.0426.C3
Gene No.	114491	Strand	-
Start	4509	End	4889
Name	OJ000112_20.0426.C3.o2.gs	Method	GENSCAN
Start	4509	End	4889
GI	none	Score	.99
Exons	4509..4889		

Seq. No.	54593	Seq. ID	OJ000112_20.0426.C3
Gene No.	114492	Strand	
Start	10827	End	12664
Name	OJ000112_20.0426.C3.o1.tm	Method	TBLASTX:Maize
Start	10827	End	12305
GI	none	Score	101
Exons	10827..10967, 10965..11111, 10967..11119, 11033..11167, 11133..11279, 11141..11281, 11142..11291, 11150..11290, 11829..12005, 11978..12121, 11982..12122, 12103..12300, 12132..12305		

Seq. No.	54593	Seq. ID	OJ000112_20.0426.C3
Gene No.	114492	Strand	
Start	10827	End	12664
Name	OJ000112_20.0426.C3.o1.ts	Method	TBLASTX:Soybean
Start	10860	End	12443
GI	none	Score	185
Exons	10860..11120, 11202..11312, 11216..11296, 11334..11429, 11342..11437, 11862..11945, 11984..12118, 11985..12125, 12138..12206, 12210..12305, 12330..12443		

Seq. No.	54593	Seq. ID	OJ000112_20.0426.C3
Gene No.	114492	Strand	
Start	10827	End	12664
Name	OJ000112_20.0426.C3.o1.tc	Method	TBLASTX:Cress
Start	10866	End	12653
GI	none	Score	77
Exons	10866..10970, 10968..11111, 11002..11112, 11142..11201, 11189..11290, 11202..11327, 11211..11327, 11331..11414, 11334..11441, 11342..11446, 11472..11621, 11868..11945, 11984..12118, 11985..12122, 12156..12206, 12204..12305, 12327..12446, 12480..12653		

Seq. No.	54593	Seq. ID	OJ000112_20.0426.C3
Gene No.	114492	Strand	
Start	10827	End	12664
Name	OJ000112_20.0426.C3.o3.tw	Method	TBLASTX:Wheat
Start	10965	End	12446
GI	none	Score	66
Exons	10965..11048, 11061..11195, 11202..11309, 11334..11432, 11982..12053, 12210..12305, 12345..12446		

Seq. No.	54593	Seq. ID	OJ000112_20.0426.C3
Gene No.	114492	Strand	
Start	10827	End	12664
Name	OJ000112_20.0426.C3.o5.tm	Method	TBLASTX:Maize
Start	11360	End	12664
GI	none	Score	107
Exons	11360..11434, 11361..11435, 11368..11460, 11441..11626, 11451..11624, 12380..12439, 12381..12461, 12391..12477, 12391..12459, 12483..12659, 12563..12664		

Seq. No.	54593	Seq. ID	OJ000112_20.0426.C3
Gene No.	114493	Strand	
Start	15496	End	15847
Name	OJ000112_20.0426.C3.o4.tm	Method	TBLASTX:Maize
Start	15496	End	15712
GI	none	Score	195
Exons	15496..15708, 15503..15712, 15506..15709		

Seq. No.	54593	Seq. ID	OJ000112_20.0426.C3
Gene No.	114493	Strand	
Start	15496	End	15847
Name	OJ000112_20.0426.C3.o2.tc	Method	TBLASTX:Cress
Start	15527	End	15847
GI	none	Score	105
Exons	15527..15697, 15749..15847, 15760..15846		

Seq. No.	54594	Seq. ID	OJ000112_20.0426.C4
Gene No.	114494	Strand	+
Start	1	End	1437
Name	OJ000112_20.0426.C4.o1.np	Method	AAT/NAP
Start	1	End	1437
GI	4680181	Score	204
Exons	1..185, 1400..1437		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	54594	Seq. ID	OJ000112_20.0426.C4
Gene No.	114494	Strand	+
Start	1	End	1437
Name	OJ000112_20.0426.C4.o1.gs	Method	GENSCAN
Start	6	End	359
GI	none	Score	.62
Exons	6..359		

Seq. No.	54594	Seq. ID	OJ000112_20.0426.C4
Gene No.	114495	Strand	+
Start	1562	End	6227
Name	OJ000112_20.0426.C4.o2.gs	Method	GENSCAN
Start	1562	End	6181
GI	none	Score	.44
Exons	1562..1653, 1930..2011, 2701..2917, 2953..3178, 3342..3493, 5776..5888, 6022..6181		

Seq. No.	54594	Seq. ID	OJ000112_20.0426.C4
Gene No.	114495	Strand	+
Start	1562	End	6227
Name	OJ000112_20.0426.C4.o2.np	Method	AAT/NAP
Start	1600	End	3607
GI	7487739	Score	366
Exons	1600..1653, 2973..3607		
GI Descrip.	hypothetical protein T6G15.10 - Arabidopsis thaliana gi|4678372|emb|CAB41104.1| (AL049656) putative protein [Arabidopsis thaliana] gi|7268049|emb|CAB78388.1| (AL161536) putative protein [Arabidopsis thaliana]		

Seq. No.	54594	Seq. ID	OJ000112_20.0426.C4
Gene No.	114495	Strand	+
Start	1562	End	6227
Name	OJ000112_20.0426.C4.o1.tm	Method	TBLASTX:Maize
Start	3227	End	3598
GI	none	Score	79
Exons	3227..3292, 3283..3459, 3478..3516, 3554..3598		

Seq. No.	54594	Seq. ID	OJ000112_20.0426.C4
Gene No.	114495	Strand	+
Start	1562	End	6227
Name	OJ000112_20.0426.C4.o1.ts	Method	TBLASTX:Soybean
Start	3295	End	3450
GI	none	Score	201
Exons	3295..3450, 3301..3447		

Seq. No.	54594	Seq. ID	OJ000112_20.0426.C4
Gene No.	114495	Strand	+

Start	1562	End	6227
Name	OJ000112_20.0426.C4.o3.np	Method	AAT/NAP
Start	4503	End	6227
GI	7340909	Score	199
Exons	4503..4534, 5718..6227		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	54595	Seq. ID	OJ000112_20.0426.C5
Gene No.	114496	Strand	+
Start	1	End	2723
Name	OJ000112_20.0426.C5.o2.np	Method	AAT/NAP
Start	1	End	2723
GI	3153821	Score	189
Exons	1..157, 1900..2723		
GI Descrip.	(AF062655) plenty-of-prolines-101; POP101; SH3-philo-protein [Mus musculus]		

Seq. No.	54595	Seq. ID	OJ000112_20.0426.C5
Gene No.	114497	Strand	-
Start	1	End	1668
Name	OJ000112_20.0426.C5.o1.np	Method	AAT/NAP
Start	1	End	1668
GI	7340909	Score	188
Exons	1..370, 1648..1668		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	54595	Seq. ID	OJ000112_20.0426.C5
Gene No.	114498	Strand	-
Start	2152	End	2493
Name	OJ000112_20.0426.C5.o2.gs	Method	GENSCAN
Start	2152	End	2493
GI	none	Score	.99
Exons	2152..2493		

Seq. No.	54596	Seq. ID	OJ000112_20.0426.C6
Gene No.	114499	Strand	+
Start	68	End	5402
Name	OJ000112_20.0426.C6.o1.gs	Method	GENSCAN
Start	68	End	5211
GI	none	Score	.54
Exons	68..190, 1868..1915, 2695..2855, 3293..3319, 3449..3471, 4160..4433, 4464..4664, 4846..5211		

Seq. No.	54596	Seq. ID	OJ000112_20.0426.C6
Gene No.	114499	Strand	+
Start	68	End	5402
Name	OJ000112_20.0426.C6.o1.gp	Method	AAT/GAP
Start	2549	End	3070
GI	LIB3434-038-P1-K1-F1	Score	780
Exons	2549..3070		
GI Descrip.	'5257255/dbj|AP000364.1|AP000364 0.0e+00 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	54596	Seq. ID	OJ000112_20.0426.C6
Gene No.	114499	Strand	+
Start	68	End	5402
Name	OJ000112_20.0426.C6.o1.np	Method	AAT/NAP

Start	4056	End	5402
GI	4680182	Score	771
Exons	4056..5402		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	54596	Seq. ID	OJ000112_20.0426.C6
Gene No.	114499	Strand	+
Start	68	End	5402
Name	OJ000112_20.0426.C6.o1.ts	Method	TBLASTX:Soybean
Start	4083	End	4409
GI	none	Score	114
Exons	4083..4277, 4311..4409		

Seq. No.	54596	Seq. ID	OJ000112_20.0426.C6
Gene No.	114499	Strand	+
Start	68	End	5402
Name	OJ000112_20.0426.C6.o1.tm	Method	TBLASTX:Maize
Start	4146	End	4589
GI	none	Score	69
Exons	4146..4253, 4314..4589, 4316..4402		

Seq. No.	54597	Seq. ID	OJ000112_20.0426.C7
Gene No.	114500	Strand	+
Start	800	End	7670
Name	OJ000112_20.0426.C7.o1.np	Method	AAT/NAP
Start	800	End	7670
GI	5917666	Score	363
Exons	800..1319, 2587..2614, 3006..3309, 3977..4137, 6114..6636, 6708..7670		
GI Descrip.	(AF159297) extensin-like protein [Zea mays]		

Seq. No.	54597	Seq. ID	OJ000112_20.0426.C7
Gene No.	114501	Strand	-
Start	509	End	14543
Name	OJ000112_20.0426.C7.o1.gs	Method	GENSCAN
Start	509	End	14543
GI	none	Score	.42
Exons	509..649, 751..766, 1254..1540, 2167..2290, 2334..2622, 2808..2936, 3008..3125, 4075..4343, 4348..4507, 6285..6380, 6850..7050, 7121..7680, 8440..8467, 10033..10118, 10820..10866, 12830..12943, 14441..14543		

Seq. No.	54598	Seq. ID	OJ000112_20.0426.C8
Gene No.	114502	Strand	+
Start	44	End	7130
Name	OJ000112_20.0426.C8.o1.gs	Method	GENSCAN
Start	44	End	7130
GI	none	Score	.53
Exons	44..138, 1010..1534, 1657..1677, 2079..2228, 2567..2836, 2917..3149, 3260..3370, 4125..4154, 4247..4384, 5110..5195, 6431..6518, 6599..6690, 7006..7130		

Seq. No.	54598	Seq. ID	OJ000112_20.0426.C8
Gene No.	114502	Strand	+
Start	44	End	7130
Name	OJ000112_20.0426.C8.o2.np	Method	AAT/NAP
Start	1145	End	4964

GI	5922620	Score	274
Exons	1145..1288, 1718..1748, 2389..2443, 3269..3548, 4012..4121, 4857..4964		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6016853|dbj|BAA85196.1| (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	54598	Seq. ID	OJ000112_20.0426.C8
Gene No.	114503	Strand	+
Start	15361	End	15489
Name	OJ000112_20.0426.C8.o5.np	Method	AAT/NAP
Start	15361	End	15489
GI	7106528	Score	112
Exons	15361..15489		
GI Descrip.	(AP001278) EST D40774(S2920) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	54598	Seq. ID	OJ000112_20.0426.C8
Gene No.	114504	Strand	-
Start	413	End	861
Name	OJ000112_20.0426.C8.o1.np	Method	AAT/NAP
Start	413	End	861
GI	6539570	Score	169
Exons	413..486, 659..861		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	54598	Seq. ID	OJ000112_20.0426.C8
Gene No.	114505	Strand	-
Start	5104	End	6448
Name	OJ000112_20.0426.C8.o3.np	Method	AAT/NAP
Start	5104	End	6448
GI	6630699	Score	83
Exons	5104..5182, 6412..6448		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	54598	Seq. ID	OJ000112_20.0426.C8
Gene No.	114506	Strand	-
Start	7287	End	9756
Name	OJ000112_20.0426.C8.o2.gs	Method	GENSCAN
Start	7287	End	9756
GI	none	Score	.75
Exons	7287..7387, 7414..7543, 9091..9360, 9748..9756		

Seq. No.	54598	Seq. ID	OJ000112_20.0426.C8
Gene No.	114507	Strand	-
Start	9918	End	15983
Name	OJ000112_20.0426.C8.o4.np	Method	AAT/NAP
Start	9912	End	12785
GI	5915832	Score	731
Exons	9912..10537, 11760..12607, 12702..12785		
GI Descrip.	CYTOCHROME P450 76C2 gi|2979549|gb|AAC06158.1| (AC003680) putative cytochrome P450 [Arabidopsis thaliana]		

Seq. No.	54598	Seq. ID	OJ000112_20.0426.C8
Gene No.	114507	Strand	-
Start	9918	End	15983
Name	OJ000112_20.0426.C8.o3.gs	Method	GENSCAN
Start	9918	End	15983
GI	none	Score	.4
Exons	9918..10532, 11737..12603, 13504..13665, 14792..14859, 15902..15983		

Seq. No.	54598	Seq. ID	OJ000112_20.0426.C8
Gene No.	114507	Strand	-
Start	9918	End	15983
Name	OJ000112_20.0426.C8.o1.tm	Method	TBLASTX:Maize
Start	10000	End	10533
GI	none	Score	104
Exons	10000..10134, 10002..10139, 10164..10319, 10168..10305, 10299..10520, 10315..10533		

Seq. No.	54598	Seq. ID	OJ000112_20.0426.C8
Gene No.	114507	Strand	-
Start	9918	End	15983
Name	OJ000112_20.0426.C8.o1.tc	Method	TBLASTX:Cress
Start	10017	End	10524
GI	none	Score	73
Exons	10017..10139, 10161..10319, 10177..10305, 10299..10520, 10417..10524		

Seq. No.	54598	Seq. ID	OJ000112_20.0426.C8
Gene No.	114507	Strand	-
Start	9918	End	15983
Name	OJ000112_20.0426.C8.o1.ts	Method	TBLASTX:Soybean
Start	10017	End	10527
GI	none	Score	81
Exons	10017..10139, 10156..10332, 10161..10331, 10303..10527, 10311..10520		

Seq. No.	54598	Seq. ID	OJ000112_20.0426.C8
Gene No.	114507	Strand	-
Start	9918	End	15983
Name	OJ000112_20.0426.C8.o1.tw	Method	TBLASTX:Wheat
Start	10230	End	10533
GI	none	Score	50
Exons	10230..10289, 10231..10287, 10303..10533, 10311..10520		

Seq. No.	54598	Seq. ID	OJ000112_20.0426.C8
Gene No.	114507	Strand	-
Start	9918	End	15983
Name	OJ000112_20.0426.C8.o2.tc	Method	TBLASTX:Cress
Start	12199	End	12537
GI	none	Score	82
Exons	12199..12537, 12395..12526		

Seq. No.	54599	Seq. ID	OJ000322_24.0424.C1
Gene No.	114508	Strand	+
Start	902	End	5558
Name	OJ000322_24.0424.C1.o1.gs	Method	GENSCAN
Start	902	End	4747

GI	none	Score	.73
Exons	902..1016, 2292..2304, 2982..3254, 3991..4092, 4512..4599, 4679..4747		

Seq. No.	54599	Seq. ID	OJ000322_24.0424.C1
Gene No.	114508	Strand	+
Start	902	End	5558
Name	OJ000322_24.0424.C1.o1.np	Method	AAT/NAP
Start	2713	End	5558
GI	6456172	Score	929
Exons	2713..3255, 3368..4092, 4512..4599, 4679..4743, 5491..5558		
GI Descrip.	(AC011622) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	54599	Seq. ID	OJ000322_24.0424.C1
Gene No.	114508	Strand	+
Start	902	End	5558
Name	OJ000322_24.0424.C1.o1.tc	Method	TBLASTX:Cress
Start	3734	End	4556
GI	none	Score	219
Exons	3734..3895, 3734..3880, 3805..3882, 3877..3978, 3881..3979, 3980..4090, 3988..4092, 4503..4556, 4510..4551		

Seq. No.	54600	Seq. ID	OJ000322_24.0424.C2
Gene No.	114509	Strand	+
Start	2838	End	3230
Name	OJ000322_24.0424.C2.o2.np	Method	AAT/NAP
Start	2838	End	3230
GI	6456172	Score	291
Exons	2838..3037, 3144..3230		
GI Descrip.	(AC011622) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	54600	Seq. ID	OJ000322_24.0424.C2
Gene No.	114510	Strand	-
Start	1	End	877
Name	OJ000322_24.0424.C2.o1.np	Method	AAT/NAP
Start	1	End	877
GI	130582	Score	432
Exons	1..877		
GI Descrip.	RETROVIRUS-RELATED POL POLYPROTEIN FROM TRANSPOSON TNT 1-94 [CONTAINS: PROTEASE ; REVERSE TRANSCRIPTASE ; ENDONUCLEASE] gi|100342|pir||S04273 hypothetical protein - common tobacco gi|20045|emb|CAA32025| (X13777) ORF [Nicotiana tabacum]		

Seq. No.	54600	Seq. ID	OJ000322_24.0424.C2
Gene No.	114511	Strand	
Start	2867	End	3230
Name	OJ000322_24.0424.C2.o1.ts	Method	TBLASTX:Soybean
Start	2867	End	3203
GI	none	Score	249
Exons	2867..3028, 2868..3038, 2871..3041, 2887..3039, 3109..3201, 3141..3203		

Seq. No.	54600	Seq. ID	OJ000322_24.0424.C2
Gene No.	114511	Strand	
Start	2867	End	3230
Name	OJ000322_24.0424.C2.o1.tc	Method	TBLASTX:Cress
Start	2868	End	3039

GI	none	Score	208
Exons	2868..3038, 2899..3039, 2900..3031		
Seq. No.	54600	Seq. ID	OJ000322_24.0424.C2
Gene No.	114511	Strand	
Start	2867	End	3230
Name	OJ000322_24.0424.C2.o1.tm	Method	TBLASTX:Maize
Start	2900	End	3230
GI	none	Score	222
Exons	2900..3031, 2901..3038, 2902..3036, 3109..3225, 3132..3230, 3141..3218, 3145..3225		
Seq. No.	54601	Seq. ID	OJ000322_24.0424.C3
Gene No.	114512	Strand	-
Start	128	End	500
Name	OJ000322_24.0424.C3.o1.gp	Method	AAT/GAP
Start	128	End	500
GI	none	Score	735
Exons	128..500		
Seq. No.	54602	Seq. ID	OJ000322_24.0424.C4
Gene No.	114513	Strand	-
Start	1	End	150
Name	OJ000322_24.0424.C4.o1.gp	Method	AAT/GAP
Start	1	End	150
GI	3761154	Score	205
Exons	1..150		
Seq. No.	54602	Seq. ID	OJ000322_24.0424.C4
Gene No.	114514	Strand	-
Start	323	End	1919
Name	OJ000322_24.0424.C4.o1.gs	Method	GENSCAN
Start	323	End	1919
GI	none	Score	.71
Exons	323..486, 569..790, 919..1024, 1134..1285, 1614..1919		
Seq. No.	54602	Seq. ID	OJ000322_24.0424.C4
Gene No.	114514	Strand	-
Start	323	End	1919
Name	OJ000322_24.0424.C4.o2.gp	Method	AAT/GAP
Start	654	End	1288
GI	33542_1.R1084	Score	535
Exons	654..790, 919..1024, 1134..1288		
GI Descrip.	'2695941/emb|CAA10989| 2.0e-20 (AJ222784) ribosomal like-protein [Hordeum vulgare]'		
Seq. No.	54602	Seq. ID	OJ000322_24.0424.C4
Gene No.	114514	Strand	-
Start	323	End	1919
Name	OJ000322_24.0424.C4.o1.np	Method	AAT/NAP
Start	728	End	1290
GI	510876	Score	413
Exons	728..790, 919..1024, 1134..1290		
GI Descrip.	(X80051) NADP dependent malic enzyme [Phaseolus vulgaris]		
Seq. No.	54602	Seq. ID	OJ000322_24.0424.C4
Gene No.	114514	Strand	-

Start	323	End	1919
Name	OJ000322_24.0424.C4.o1.tc	Method	TBLASTX:Cress
Start	734	End	1291
GI	none	Score	75
Exons	734..793, 735..791, 751..792, 1121..1204, 1133..1288, 1137..1229, 1256..1291		

Seq. No.	54602	Seq. ID	OJ000322_24.0424.C4
Gene No.	114514	Strand	-
Start	323	End	1919
Name	OJ000322_24.0424.C4.o1.tm	Method	TBLASTX:Maize
Start	734	End	1288
GI	none	Score	88
Exons	734..793, 735..791, 919..1020, 1137..1229	919..1026, 962..1030, 1133..1288,	

Seq. No.	54602	Seq. ID	OJ000322_24.0424.C4
Gene No.	114514	Strand	-
Start	323	End	1919
Name	OJ000322_24.0424.C4.o1.ts	Method	TBLASTX:Soybean
Start	946	End	1291
GI	none	Score	64
Exons	946..1026, 962..1030, 1133..1288, 1137..1229, 1256..1291		

Seq. No.	54602	Seq. ID	OJ000322_24.0424.C4
Gene No.	114514	Strand	-
Start	323	End	1919
Name	OJ000322_24.0424.C4.o1.tw	Method	TBLASTX:Wheat
Start	1142	End	1291
GI	none	Score	118
Exons	1142..1288, 1143..1229, 1256..1291		

Seq. No.	54603	Seq. ID	OJ000322_24.0424.C5
Gene No.	114515	Strand	+
Start	848	End	9243
Name	OJ000322_24.0424.C5.o1.gs	Method	GENSCAN
Start	848	End	9243
GI	none	Score	.64
Exons	848..948, 5226..5277, 6036..6191, 6319..6410, 6453..6522, 6618..6721, 7614..7746, 8812..9243		

Seq. No.	54603	Seq. ID	OJ000322_24.0424.C5
Gene No.	114515	Strand	+
Start	848	End	9243
Name	OJ000322_24.0424.C5.o2.np	Method	AAT/NAP
Start	5871	End	8540
GI	7340881	Score	416
Exons	5871..5956, 6103..6226, 6319..6410, 6628..6841, 8198..8376, 8481..8540		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	54604	Seq. ID	OJ000322_24.0424.C6
Gene No.	114516	Strand	+
Start	558	End	730
Name	OJ000322_24.0424.C6.o1.np	Method	AAT/NAP
Start	558	End	730
GI	6063554	Score	99

Exons	558..730
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No.	54604	Seq. ID	OJ000322_24.0424.C6
Gene No.	114517	Strand	+
Start	889	End	3331
Name	OJ000322_24.0424.C6.o1.gs	Method	GENSCAN
Start	889	End	3331
GI	none	Score	.49
Exons	889..923, 2607..2726, 2778..2969, 3067..3331		

Seq. No.	54605	Seq. ID	OJ000322_24.0424.C7
Gene No.	114518	Strand	+
Start	1	End	3283
Name	OJ000322_24.0424.C7.o1.np	Method	AAT/NAP
Start	1	End	3283
GI	7486119	Score	493
Exons	1..70, 185..347, 471..586, 698..822, 963..1085, 2726..2806, 3206..3283		
GI Descrip.	hypothetical protein F25E4.60 - Arabidopsis thaliana gi|7267844|emb|CAB78187.1| (AL161532) putative protein [Arabidopsis thaliana] gi|7321041|emb|CAB82149.1| (AL050399) putative protein [Arabidopsis thaliana]		

Seq. No.	54605	Seq. ID	OJ000322_24.0424.C7
Gene No.	114519	Strand	+
Start	6563	End	8938
Name	OJ000322_24.0424.C7.o2.np	Method	AAT/NAP
Start	6226	End	8896
GI	7435661	Score	1420
Exons	6226..6435, 6812..7197, 7228..8896		
GI Descrip.	subtilisin-like proteinase (EC 3.4.21.-) p69f - tomato gi|3183991|emb|CAA06414.1| (AJ005173) P69F protein [Lycopersicon esculentum]		

Seq. No.	54605	Seq. ID	OJ000322_24.0424.C7
Gene No.	114519	Strand	+
Start	6563	End	8938
Name	OJ000322_24.0424.C7.o3.gs	Method	GENSCAN
Start	6563	End	8938
GI	none	Score	.99
Exons	6563..8938		

Seq. No.	54605	Seq. ID	OJ000322_24.0424.C7
Gene No.	114520	Strand	+
Start	11265	End	16133
Name	OJ000322_24.0424.C7.o4.gs	Method	GENSCAN
Start	11265	End	16133
GI	none	Score	.84
Exons	11265..11559, 12294..12415, 12570..12690, 13538..13728, 13827..13988, 14036..14731, 14820..15599, 15912..16133		

Seq. No.	54605	Seq. ID	OJ000322_24.0424.C7
Gene No.	114520	Strand	+
Start	11265	End	16133

Name	OJ000322_24.0424.C7.o3.np	Method	AAT/NAP
Start	11750	End	16094
GI	7488259	Score	1247
Exons	11750..11807, 12294..12415, 12570..12691, 13243..13540, 13819..13971, 14040..14254, 14423..14731, 14820..15170, 15198..15599, 15912..16094		
GI Descrip.	protein kinase homolog F4I18.11 - Arabidopsis thaliana gi|3386604|gb|AAC28534.1| (AC004665) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	54605	Seq. ID	OJ000322_24.0424.C7
Gene No.	114521	Strand	+
Start	17148	End	20362
Name	OJ000322_24.0424.C7.o5.gs	Method	GENSCAN
Start	17148	End	20362
GI	none	Score	.52
Exons	17148..17409, 17490..17611, 17747..17890, 18255..18359, 19809..19961, 20155..20362		

Seq. No.	54605	Seq. ID	OJ000322_24.0424.C7
Gene No.	114521	Strand	+
Start	17148	End	20362
Name	OJ000322_24.0424.C7.o4.np	Method	AAT/NAP
Start	17199	End	19730
GI	6850906	Score	172
Exons	17199..17403, 17505..17594, 17742..17868, 18255..18430, 19620..19730		
GI Descrip.	(AL137898) putative protein [Arabidopsis thaliana]		

Seq. No.	54605	Seq. ID	OJ000322_24.0424.C7
Gene No.	114522	Strand	-
Start	3363	End	3671
Name	OJ000322_24.0424.C7.o2.gs	Method	GENSCAN
Start	3363	End	3671
GI	none	Score	.4
Exons	3363..3671		

Seq. No.	54605	Seq. ID	OJ000322_24.0424.C7
Gene No.	114523	Strand	-
Start	17626	End	18183
Name	OJ000322_24.0424.C7.o3.ts	Method	TBLASTX:Soybean
Start	202	End	2815
GI	none	Score	108
Exons	202..282, 203..346, 463..588, 467..586, 695..721, 733..804, 734..823, 963..1052, 964..1068, 1140..1208, 1143..1184, 2295..2348, 2296..2376, 2298..2372, 2564..2635, 2723..2815, 2724..2798		

Seq. No.	54605	Seq. ID	OJ000322_24.0424.C7
Gene No.	114523	Strand	-
Start	17626	End	18183
Name	OJ000322_24.0424.C7.o4.tm	Method	TBLASTX:Maize
Start	978	End	2620
GI	none	Score	118
Exons	978..1058, 978..1052, 979..1068, 986..1057, 988..1062, 1139..1231, 1140..1232, 2289..2372, 2290..2373, 2546..2620, 2547..2618, 2549..2620		

Seq. No.	54605	Seq. ID	OJ000322_24.0424.C7
Gene No.	114523	Strand	-
Start	17626	End	18183
Name	OJ000322_24.0424.C7.o1.tc	Method	TBLASTX:Cress
Start	6818	End	8614
GI	none	Score	112
Exons	6818..6973, 7034..7135, 7133..7183, 7250..7375, 7252..7380, 7388..7468, 7484..7738, 7522..7737, 7763..7831, 7841..8155, 8005..8154, 8207..8368, 8209..8331, 8375..8524, 8392..8487, 8546..8614		

Seq. No.	54605	Seq. ID	OJ000322_24.0424.C7
Gene No.	114523	Strand	-
Start	17626	End	18183
Name	OJ000322_24.0424.C7.o1.ts	Method	TBLASTX:Soybean
Start	6818	End	8884
GI	none	Score	107
Exons	6818..6973, 7004..7135, 7133..7183, 7250..7303, 7304..7375, 7388..7468, 7484..7738, 7522..7716, 7763..7825, 7786..7824, 7808..8158, 8032..8220, 8210..8368, 8215..8331, 8375..8524, 8392..8487, 8578..8673, 8579..8671, 8792..8884		

Seq. No.	54605	Seq. ID	OJ000322_24.0424.C7
Gene No.	114523	Strand	-
Start	17626	End	18183
Name	OJ000322_24.0424.C7.o1.tm	Method	TBLASTX:Maize
Start	7025	End	8284
GI	none	Score	138
Exons	7025..7144, 7075..7125, 7150..7176, 7151..7195, 7214..7387, 7252..7374, 7391..7711, 7516..7734, 7519..7704, 7778..8155, 7792..8154, 8210..8284, 8221..8283		

Seq. No.	54605	Seq. ID	OJ000322_24.0424.C7
Gene No.	114523	Strand	-
Start	17626	End	18183
Name	OJ000322_24.0424.C7.o2.tw	Method	TBLASTX:Wheat
Start	7322	End	7738
GI	none	Score	62
Exons	7322..7375, 7385..7474, 7475..7738, 7522..7686		

Seq. No.	54605	Seq. ID	OJ000322_24.0424.C7
Gene No.	114523	Strand	-
Start	17626	End	18183
Name	OJ000322_24.0424.C7.o3.tw	Method	TBLASTX:Wheat
Start	8060	End	8359
GI	none	Score	53
Exons	8060..8143, 8063..8128, 8209..8343, 8210..8359		

Seq. No.	54605	Seq. ID	OJ000322_24.0424.C7
Gene No.	114523	Strand	-
Start	17626	End	18183
Name	OJ000322_24.0424.C7.o3.tm	Method	TBLASTX:Maize
Start	8284	End	8884
GI	none	Score	407
Exons	8284..8661, 8285..8662, 8815..8880, 8816..8884		

Seq. No.	54605	Seq. ID	OJ000322_24.0424.C7
Gene No.	114523	Strand	-
Start	17626	End	18183
Name	OJ000322_24.0424.C7.o4.ts	Method	TBLASTX:Soybean
Start	14576	End	14936
GI	none	Score	132
Exons	14576..14734, 14656..14733, 14817..14936, 14817..14936		

Seq. No.	54605	Seq. ID	OJ000322_24.0424.C7
Gene No.	114523	Strand	-
Start	17626	End	18183
Name	OJ000322_24.0424.C7.o2.tc	Method	TBLASTX:Cress
Start	14609	End	15308
GI	none	Score	101
Exons	14609..14749, 14817..14882, 14961..15125, 15198..15308		

Seq. No.	54605	Seq. ID	OJ000322_24.0424.C7
Gene No.	114523	Strand	-
Start	17626	End	18183
Name	OJ000322_24.0424.C7.o2.tm	Method	TBLASTX:Maize
Start	14817	End	15614
GI	none	Score	386
Exons	14817..15137, 14822..15133, 15192..15614, 15192..15485, 15203..15496		

Seq. No.	54605	Seq. ID	OJ000322_24.0424.C7
Gene No.	114523	Strand	-
Start	17626	End	18183
Name	OJ000322_24.0424.C7.o1.tw	Method	TBLASTX:Wheat
Start	14835	End	15116
GI	none	Score	299
Exons	14835..15113, 14843..15115, 14844..15116		

Seq. No.	54605	Seq. ID	OJ000322_24.0424.C7
Gene No.	114523	Strand	-
Start	17626	End	18183
Name	OJ000322_24.0424.C7.o2.ts	Method	TBLASTX:Soybean
Start	14948	End	16079
GI	none	Score	185
Exons	14948..15133, 14949..15131, 15192..15503, 15203..15466, 15555..15599, 15909..16079, 15911..16069		

Seq. No.	54605	Seq. ID	OJ000322_24.0424.C7
Gene No.	114523	Strand	-
Start	17626	End	18183
Name	OJ000322_24.0424.C7.o5.tm	Method	TBLASTX:Maize
Start	15909	End	16079
GI	none	Score	138
Exons	15909..16001, 15911..15991, 15981..16079, 15989..16069		

Seq. No.	54605	Seq. ID	OJ000322_24.0424.C7
Gene No.	114523	Strand	-
Start	17626	End	18183
Name	OJ000322_24.0424.C7.o3.tc	Method	TBLASTX:Cress
Start	15926	End	16079
GI	none	Score	212
Exons	15926..16069, 15927..16079		

Seq. No.	54605	Seq. ID	OJ000322_24.0424.C7
Gene No.	114523	Strand	-
Start	17626	End	18183
Name	OJ000322_24.0424.C7.o1.gp	Method	AAT/GAP
Start	17626	End	18183
GI	none	Score	1044
Exons	17626..18183		

Seq. No.	54606	Seq. ID	OJ000322_24.0424.C8
Gene No.	114524	Strand	+
Start	1	End	7569
Name	OJ000322_24.0424.C8.o1.np	Method	AAT/NAP
Start	1	End	1834
GI	7488259	Score	927
Exons	1..279, 322..644, 748..1485, 1652..1834		
GI Descrip.	protein kinase homolog F4I18.11 - Arabidopsis thaliana gi|3386604|gb|AAC28534.1| (AC004665) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	54606	Seq. ID	OJ000322_24.0424.C8
Gene No.	114524	Strand	+
Start	1	End	7569
Name	OJ000322_24.0424.C8.o1.gs	Method	GENSCAN
Start	60	End	7569
GI	none	Score	.74
Exons	60..80, 168..644, 748..1485, 1577..1740, 2018..2191, 2236..2324, 2643..2941, 2977..3212, 4054..4197, 4440..4460, 5438..5564, 5610..5763, 6987..7120, 7420..7569		

Seq. No.	54606	Seq. ID	OJ000322_24.0424.C8
Gene No.	114524	Strand	+
Start	1	End	7569
Name	OJ000322_24.0424.C8.o2.np	Method	AAT/NAP
Start	3375	End	4460
GI	6539570	Score	175
Exons	3375..3402, 4029..4201, 4394..4460		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	54606	Seq. ID	OJ000322_24.0424.C8
Gene No.	114525	Strand	+
Start	11661	End	15322
Name	OJ000322_24.0424.C8.o1.gp	Method	AAT/GAP
Start	11576	End	14660
GI	43_1.R1084	Score	2384
Exons	11576..11997, 12989..13284, 13644..13784, 14272..14660		
GI Descrip.	'3738323 1.0e-22 (AC005170) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	54606	Seq. ID	OJ000322_24.0424.C8
Gene No.	114525	Strand	+
Start	11661	End	15322
Name	OJ000322_24.0424.C8.o3.gs	Method	GENSCAN
Start	11661	End	15322
GI	none	Score	.69
Exons	11661..11997, 12989..13284, 13644..13784, 14272..14360, 14642..14739, 15297..15322		

Seq. No.	54606	Seq. ID	OJ000322_24.0424.C8
Gene No.	114525	Strand	+
Start	11661	End	15322
Name	OJ000322_24.0424.C8.o4.np	Method	AAT/NAP
Start	11661	End	14364
GI	2894534	Score	1421
Exons	11661..11997, 12989..13284, 13644..13784, 14272..14364		
GI Descrip.	(AJ224327) aquaporin [Oryza sativa]		

Seq. No.	54606	Seq. ID	OJ000322_24.0424.C8
Gene No.	114526	Strand	-
Start	4582	End	10114
Name	OJ000322_24.0424.C8.o4.ts	Method	TBLASTX:Soybean
Start	408	End	864
GI	none	Score	102
Exons	408..659, 500..646, 729..857, 745..864		

Seq. No.	54606	Seq. ID	OJ000322_24.0424.C8
Gene No.	114526	Strand	-
Start	4582	End	10114
Name	OJ000322_24.0424.C8.o1.tm	Method	TBLASTX:Maize
Start	739	End	1479
GI	none	Score	321
Exons	739..1017, 745..1032, 747..1040, 1080..1373, 1081..1374, 1213..1383, 1435..1479, 1437..1478		

Seq. No.	54606	Seq. ID	OJ000322_24.0424.C8
Gene No.	114526	Strand	-
Start	4582	End	10114
Name	OJ000322_24.0424.C8.o3.tc	Method	TBLASTX:Cress
Start	747	End	1011
GI	none	Score	256
Exons	747..1010, 748..1011		

Seq. No.	54606	Seq. ID	OJ000322_24.0424.C8
Gene No.	114526	Strand	-
Start	4582	End	10114
Name	OJ000322_24.0424.C8.o2.tw	Method	TBLASTX:Wheat
Start	771	End	1035
GI	none	Score	255
Exons	771..1031, 772..1035		

Seq. No.	54606	Seq. ID	OJ000322_24.0424.C8
Gene No.	114526	Strand	-
Start	4582	End	10114
Name	OJ000322_24.0424.C8.o2.ts	Method	TBLASTX:Soybean
Start	877	End	1819
GI	none	Score	146
Exons	877..1032, 1057..1356, 1095..1355, 1438..1485, 1649..1819, 1651..1815		

Seq. No.	54606	Seq. ID	OJ000322_24.0424.C8
Gene No.	114526	Strand	-
Start	4582	End	10114
Name	OJ000322_24.0424.C8.o4.tm	Method	TBLASTX:Maize
Start	1639	End	1833

GI	none	Score	127
Exons	1639..1731, 1640..1738, 1721..1819, 1729..1833		

Seq. No.	54606	Seq. ID	OJ000322_24.0424.C8
Gene No.	114526	Strand	-
Start	4582	End	10114
Name	OJ000322_24.0424.C8.o3.np	Method	AAT/NAP
Start	4582	End	9258
GI	6069646	Score	241
Exons	4582..5164, 9235..9258		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	54606	Seq. ID	OJ000322_24.0424.C8
Gene No.	114526	Strand	-
Start	4582	End	10114
Name	OJ000322_24.0424.C8.o3.tm	Method	TBLASTX:Maize
Start	4588	End	5126
GI	none	Score	112
Exons	4588..4689, 4718..4777, 4881..5126, 4888..5121		

Seq. No.	54606	Seq. ID	OJ000322_24.0424.C8
Gene No.	114526	Strand	-
Start	4582	End	10114
Name	OJ000322_24.0424.C8.o4.tw	Method	TBLASTX:Wheat
Start	4869	End	5051
GI	none	Score	194
Exons	4869..5051		

Seq. No.	54606	Seq. ID	OJ000322_24.0424.C8
Gene No.	114526	Strand	-
Start	4582	End	10114
Name	OJ000322_24.0424.C8.o2.gs	Method	GENSCAN
Start	9107	End	10114
GI	none	Score	.89
Exons	9107..9417, 10096..10114		

Seq. No.	54606	Seq. ID	OJ000322_24.0424.C8
Gene No.	114527	Strand	
Start	11646	End	14369
Name	OJ000322_24.0424.C8.o1.tw	Method	TBLASTX:Wheat
Start	11646	End	13287
GI	none	Score	161
Exons	11646..11789, 11654..11737, 11730..11894, 11807..11893, 11853..11999, 11900..11998, 12985..13056, 12987..13055, 13002..13274, 13057..13287, 13060..13272, 13194..13283		

Seq. No.	54606	Seq. ID	OJ000322_24.0424.C8
Gene No.	114527	Strand	
Start	11646	End	14369
Name	OJ000322_24.0424.C8.o2.tm	Method	TBLASTX:Maize
Start	11648	End	14369
GI	none	Score	585
Exons	11648..11737, 11649..11999, 11807..11998, 12985..13287,		

12987..13298, 12987..13127, 13013..13282, 13057..13284,
13644..13853, 13644..13784, 13714..13788, 14269..14367,
14271..14369, 14274..14369

Seq. No.	54606	Seq. ID	OJ000322_24.0424.C8
Gene No.	114527	Strand	
Start	11646	End	14369
Name	OJ000322_24.0424.C8.o1.ts	Method	TBLASTX:Soybean
Start	11651	End	13134
GI	none	Score	125
Exons	11651..11734, 11661..11738, 11742..11999, 11807..11998, 12985..13134, 12987..13115		

Seq. No.	54606	Seq. ID	OJ000322_24.0424.C8
Gene No.	114527	Strand	
Start	11646	End	14369
Name	OJ000322_24.0424.C8.o2.tc	Method	TBLASTX:Cress
Start	11660	End	14360
GI	none	Score	124
Exons	11660..11734, 11661..11777, 11751..11999, 11807..11998, 13722..13853, 13723..13788, 14272..14355, 14274..14360		

Seq. No.	54606	Seq. ID	OJ000322_24.0424.C8
Gene No.	114527	Strand	
Start	11646	End	14369
Name	OJ000322_24.0424.C8.o1.tc	Method	TBLASTX:Cress
Start	12984	End	13721
GI	none	Score	237
Exons	12984..13280, 12987..13133, 12988..13287, 13060..13284, 13643..13717, 13644..13721		

Seq. No.	54606	Seq. ID	OJ000322_24.0424.C8
Gene No.	114527	Strand	
Start	11646	End	14369
Name	OJ000322_24.0424.C8.o3.ts	Method	TBLASTX:Soybean
Start	13146	End	14360
GI	none	Score	44
Exons	13146..13187, 13148..13207, 13171..13287, 13185..13283, 13631..13789, 13643..13810, 13644..13853, 14272..14355, 14274..14360		

Seq. No.	54606	Seq. ID	OJ000322_24.0424.C8
Gene No.	114527	Strand	
Start	11646	End	14369
Name	OJ000322_24.0424.C8.o3.tw	Method	TBLASTX:Wheat
Start	13644	End	14343
GI	none	Score	223
Exons	13644..13781, 13649..13717, 13674..13784, 13708..13788, 14269..14292, 14271..14291, 14289..14342, 14290..14343		

Seq. No.	54607	Seq. ID	OJ000322_24.0424.C9
Gene No.	114528	Strand	+
Start	572	End	644
Name	OJ000322_24.0424.C9.o1.gs	Method	GENSCAN
Start	572	End	644
GI	none	Score	.7
Exons	572..644		

Seq. No.	54607	Seq. ID	OJ000322_24.0424.C9
Gene No.	114529	Strand	
Start	1645	End	2043
Name	OJ000322_24.0424.C9.o1.tm	Method	TBLASTX:Maize
Start	1645	End	2043
GI	none	Score	79
Exons	1645..1707, 1647..1709, 1708..2043, 1714..1803, 1716..2042		

Seq. No.	54608	Seq. ID	OJ000322_24.0424.C11
Gene No.	114530	Strand	+
Start	66	End	894
Name	OJ000322_24.0424.C11.o1.gs	Method	GENSCAN
Start	66	End	894
GI	none	Score	.61
Exons	66..221, 727..894		

Seq. No.	54609	Seq. ID	OJ000322_24.0424.C12
Gene No.	114531	Strand	+
Start	215	End	553
Name	OJ000322_24.0424.C12.o1.gp	Method	AAT/GAP
Start	215	End	553
GI	26639_1.R1084	Score	640
Exons	215..553		
GI Descrip.	'5262775/emb|CAB45880.1| 2.0e-40 (AL080282) putative protein [Arabidopsis thaliana]'		

Seq. No.	54609	Seq. ID	OJ000322_24.0424.C12
Gene No.	114532	Strand	-
Start	9	End	169
Name	OJ000322_24.0424.C12.o1.gs	Method	GENSCAN
Start	9	End	169
GI	none	Score	.99
Exons	9..169		

Seq. No.	54609	Seq. ID	OJ000322_24.0424.C12
Gene No.	114533	Strand	-
Start	396	End	1060
Name	OJ000322_24.0424.C12.o1.np	Method	AAT/NAP
Start	396	End	1060
GI	7486967	Score	151
Exons	396..551, 974..1060		
GI Descrip.	hypothetical protein T13K14.10 - Arabidopsis thaliana gi|5262775|emb|CAB45880.1| (AL080282) putative protein [Arabidopsis thaliana] gi|7268881|emb|CAB79085.1| (AL161553) putative protein [Arabidopsis thaliana]		

Seq. No.	54610	Seq. ID	OJ000322_24.0424.C13
Gene No.	114534	Strand	-
Start	440	End	519
Name	OJ000322_24.0424.C13.o1.gp	Method	AAT/GAP
Start	440	End	519
GI	16777_1.R1084	Score	109
Exons	440..519		
GI Descrip.	'5262775/emb|CAB45880.1| 1.0e-149 (AL080282) putative protein [Arabidopsis thaliana]'		

Seq. No.	54611	Seq. ID	OJ000322_24.0424.C14
Gene No.	114535	Strand	+
Start	159	End	1603
Name	OJ000322_24.0424.C14.o1.gp	Method	AAT/GAP
Start	159	End	1508
GI	16777_1.R1084	Score	436
Exons	159..229, 513..605, 1411..1508		
GI Descrip.	'5262775/emb|CAB45880.1| 1.0e-149 (AL080282) putative protein [Arabidopsis thaliana]'		

Seq. No.	54611	Seq. ID	OJ000322_24.0424.C14
Gene No.	114535	Strand	+
Start	159	End	1603
Name	OJ000322_24.0424.C14.o1.np	Method	AAT/NAP
Start	199	End	1603
GI	7486967	Score	126
Exons	199..229, 513..605, 1411..1603		
GI Descrip.	hypothetical protein T13K14.10 - Arabidopsis thaliana gi|5262775|emb|CAB45880.1| (AL080282) putative protein [Arabidopsis thaliana] gi|7268881|emb|CAB79085.1| (AL161553) putative protein [Arabidopsis thaliana]		

Seq. No.	54612	Seq. ID	OJ000322_24.0424.C16
Gene No.	114536	Strand	-
Start	90	End	559
Name	OJ000322_24.0424.C16.o1.gs	Method	GENSCAN
Start	90	End	546
GI	none	Score	.53
Exons	90..546		

Seq. No.	54612	Seq. ID	OJ000322_24.0424.C16
Gene No.	114536	Strand	-
Start	90	End	559
Name	OJ000322_24.0424.C16.o1.tm	Method	TBLASTX:Maize
Start	263	End	559
GI	none	Score	164
Exons	263..448, 267..458, 271..468, 274..474, 477..551, 479..556, 494..559		

Seq. No.	54613	Seq. ID	OJ000322_24.0424.C18
Gene No.	114537	Strand	+
Start	2799	End	3325
Name	OJ000322_24.0424.C18.o1.gp	Method	AAT/GAP
Start	2799	End	3325
GI	102_5.R1084	Score	931
Exons	2799..3325		
GI Descrip.	'4585925/gb|AAD25585.1|AC007211_7 2.0e-19 (AC007211) unknown protein [Arabidopsis thaliana]'		

Seq. No.	54613	Seq. ID	OJ000322_24.0424.C18
Gene No.	114538	Strand	+
Start	3969	End	4547
Name	OJ000322_24.0424.C18.o2.gs	Method	GENSCAN
Start	3969	End	4547
GI	none	Score	.99
Exons	3969..4226, 4493..4547		

Seq. No.	54613	Seq. ID	OJ000322_24.0424.C18
Gene No.	114539	Strand	-
Start	1	End	2999
Name	OJ000322_24.0424.C18.o1.np	Method	AAT/NAP
Start	1	End	2790
GI	5852180	Score	619
Exons	1..29, 1833..2495, 2695..2790		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	54613	Seq. ID	OJ000322_24.0424.C18
Gene No.	114539	Strand	-
Start	1	End	2999
Name	OJ000322_24.0424.C18.o1.gs	Method	GENSCAN
Start	1758	End	2999
GI	none	Score	.67
Exons	1758..1961, 2158..2268, 2856..2999		

Seq. No.	54614	Seq. ID	OJ000322_24.0424.C19
Gene No.	114540	Strand	+
Start	891	End	1701
Name	OJ000322_24.0424.C19.o1.gs	Method	GENSCAN
Start	891	End	1701
GI	none	Score	.67
Exons	891..1049, 1619..1701		

Seq. No.	54614	Seq. ID	OJ000322_24.0424.C19
Gene No.	114541	Strand	-
Start	1972	End	2658
Name	OJ000322_24.0424.C19.o2.gs	Method	GENSCAN
Start	1972	End	2658
GI	none	Score	.86
Exons	1972..2089, 2095..2213, 2338..2658		

Seq. No.	54615	Seq. ID	OJ000322_24.0424.C20
Gene No.	114542	Strand	+
Start	768	End	6314
Name	OJ000322_24.0424.C20.o1.gs	Method	GENSCAN
Start	768	End	4996
GI	none	Score	.62
Exons	768..998, 1981..2100, 2385..2456, 2869..3143, 3305..3362, 3472..3549, 3666..3792, 3885..4279, 4436..4563, 4655..4744, 4867..4996		

Seq. No.	54615	Seq. ID	OJ000322_24.0424.C20
Gene No.	114542	Strand	+
Start	768	End	6314
Name	OJ000322_24.0424.C20.o1.np	Method	AAT/NAP
Start	2905	End	6314
GI	4314369	Score	129
Exons	2905..3135, 3260..3358, 3420..3552, 3669..3759, 6297..6314		
GI Descrip.	(AC006340) unknown protein [Arabidopsis thaliana]		

Seq. No.	54615	Seq. ID	OJ000322_24.0424.C20
Gene No.	114542	Strand	+
Start	768	End	6314
Name	OJ000322_24.0424.C20.o1.gp	Method	AAT/GAP
Start	4485	End	4743

GI	3106582	Score	423
Exons	4485..4743		

Seq. No.	54616	Seq. ID	OJ000322_24.0424.C21
Gene No.	114543	Strand	+
Start	1	End	879
Name	OJ000322_24.0424.C21.o1.gs	Method	GENSCAN
Start	1	End	770
GI	none	Score	.53
Exons	1..110, 475..591, 715..770		

Seq. No.	54616	Seq. ID	OJ000322_24.0424.C21
Gene No.	114543	Strand	+
Start	1	End	879
Name	OJ000322_24.0424.C21.o1.np	Method	AAT/NAP
Start	1	End	879
GI	7486967	Score	304
Exons	1..110, 715..879		
GI Descrip.	hypothetical protein T13K14.10 - Arabidopsis thaliana gi|5262775|emb|CAB45880.1| (AL080282) putative protein [Arabidopsis thaliana] gi|7268881|emb|CAB79085.1| (AL161553) putative protein [Arabidopsis thaliana]		

Seq. No.	54616	Seq. ID	OJ000322_24.0424.C21
Gene No.	114543	Strand	+
Start	1	End	879
Name	OJ000322_24.0424.C21.o1.tc	Method	TBLASTX:Cress
Start	1	End	868
GI	none	Score	148
Exons	1..117, 9..116, 709..858, 713..868		

Seq. No.	54616	Seq. ID	OJ000322_24.0424.C21
Gene No.	114543	Strand	+
Start	1	End	879
Name	OJ000322_24.0424.C21.o1.tm	Method	TBLASTX:Maize
Start	1	End	879
GI	none	Score	175
Exons	1..117, 3..116, 686..856, 709..879, 713..877		

Seq. No.	54617	Seq. ID	OJ000322_24.0424.C23
Gene No.	114544	Strand	-
Start	213	End	6533
Name	OJ000322_24.0424.C23.o1.gs	Method	GENSCAN
Start	213	End	6533
GI	none	Score	.66
Exons	213..276, 500..687, 773..856, 1123..1245, 1322..1472, 1979..2121, 2203..2289, 2612..2692, 2773..2882, 3239..3341, 3374..3459, 4183..4440, 4757..4924, 6259..6331, 6419..6533		

Seq. No.	54617	Seq. ID	OJ000322_24.0424.C23
Gene No.	114544	Strand	-
Start	213	End	6533
Name	OJ000322_24.0424.C23.o1.gp	Method	AAT/GAP
Start	480	End	681
GI	4715354	Score	348
Exons	480..681		
GI Descrip.	5262775/emb|CAB45880.1| 1.0e-91 (AL080282) putative protein		

[Arabidopsis thaliana]

Seq. No.	54617	Seq. ID	OJ000322_24.0424.C23
Gene No.	114544	Strand	-
Start	213	End	6533
Name	OJ000322_24.0424.C23.o1.np	Method	AAT/NAP
Start	500	End	6090
GI	7486967	Score	1180
Exons	500..687, 773..856, 1123..1245, 1325..1401, 1974..2121, 2203..2289, 2612..2714, 2765..2882, 3239..3312, 3405..3483, 4183..4313, 4356..4467, 5898..6090		
GI Descrip.	hypothetical protein T13K14.10 - Arabidopsis thaliana gi|5262775|emb|CAB45880.1| (AL080282) putative protein [Arabidopsis thaliana] gi|7268881|emb|CAB79085.1| (AL161553) putative protein [Arabidopsis thaliana]		

Seq. No.	54617	Seq. ID	OJ000322_24.0424.C23
Gene No.	114544	Strand	-
Start	213	End	6533
Name	OJ000322_24.0424.C23.o2.gp	Method	AAT/GAP
Start	1361	End	2269
GI	4878191	Score	596
Exons	1361..1472, 1979..2121, 2203..2269		
GI Descrip.	5262775/emb|CAB45880.1| 1.0e-24 (AL080282) putative protein [Arabidopsis thaliana]		

Seq. No.	54617	Seq. ID	OJ000322_24.0424.C23
Gene No.	114545	Strand	-
Start	6656	End	6719
Name	OJ000322_24.0424.C23.o3.tm	Method	TBLASTX:Maize
Start	514	End	690
GI	none	Score	81
Exons	514..606, 516..590, 589..690, 590..688		

Seq. No.	54617	Seq. ID	OJ000322_24.0424.C23
Gene No.	114545	Strand	-
Start	6656	End	6719
Name	OJ000322_24.0424.C23.o1.ts	Method	TBLASTX:Soybean
Start	556	End	1453
GI	none	Score	118
Exons	556..696, 590..697, 768..836, 770..862, 771..857, 1112..1246, 1123..1251, 1123..1248, 1143..1265, 1325..1453, 1326..1451, 1333..1452		

Seq. No.	54617	Seq. ID	OJ000322_24.0424.C23
Gene No.	114545	Strand	-
Start	6656	End	6719
Name	OJ000322_24.0424.C23.o1.tm	Method	TBLASTX:Maize
Start	1978	End	2668
GI	none	Score	198
Exons	1978..2121, 1979..2122, 2202..2276, 2202..2300, 2203..2292, 2203..2346, 2612..2668, 2613..2660		

Seq. No.	54617	Seq. ID	OJ000322_24.0424.C23
Gene No.	114545	Strand	-
Start	6656	End	6719
Name	OJ000322_24.0424.C23.o2.ts	Method	TBLASTX:Soybean

Start	1978	End	2119
GI	none	Score	123
Exons	1978..2118, 1979..2119		

Seq. No.	54617	Seq. ID	OJ000322_24.0424.C23
Gene No.	114545	Strand	-
Start	6656	End	6719
Name	OJ000322_24.0424.C23.o1.tw	Method	TBLASTX:Wheat
Start	5897	End	6121
GI	none	Score	249
Exons	5897..6121, 5938..6120		

Seq. No.	54617	Seq. ID	OJ000322_24.0424.C23
Gene No.	114545	Strand	-
Start	6656	End	6719
Name	OJ000322_24.0424.C23.o2.tm	Method	TBLASTX:Maize
Start	5897	End	6140
GI	none	Score	100
Exons	5897..6007, 5938..6006, 5940..6011, 5944..6012, 5993..6121, 6000..6128, 6004..6123, 6029..6127, 6036..6140		

Seq. No.	54617	Seq. ID	OJ000322_24.0424.C23
Gene No.	114545	Strand	-
Start	6656	End	6719
Name	OJ000322_24.0424.C23.o3.gp	Method	AAT/GAP
Start	6656	End	6719
GI	12677_1.R1084	Score	108
Exons	6656..6719		
GI Descrip.	'3874271/emb|CAB03874| 4.0e-89 (Z81467) predicted using Genefinder; Similarity to Drosophila UDP-glucose:glycoprotein glucosyltransferase (TR:Q09332); cDNA EST yk250b10.3 comes from this gene; cDNA EST yk250b10.5 comes from this gene [Caenorhabditis elegans] >gi_3876437_emb_CAB04207.1_ (Z81516) predicted using Genefinder; Similarity to Drosophila UDP-glucose:glycoprotein glucosyltran'		

Seq. No.	54618	Seq. ID	OJ000322_24.0424.C24
Gene No.	114546	Strand	-
Start	1	End	1447
Name	OJ000322_24.0424.C24.o1.np	Method	AAT/NAP
Start	1	End	1447
GI	6456172	Score	230
Exons	1..99, 1378..1447		
GI Descrip.	(AC011622) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	54619	Seq. ID	OJ000302_20.0420.C7
Gene No.	114547	Strand	+
Start	78	End	264
Name	OJ000302_20.0420.C7.o1:gs	Method	GENSCAN
Start	78	End	264
GI	none	Score	.76
Exons	78..264		

Seq. No.	54620	Seq. ID	OJ000302_20.0420.C9
Gene No.	114548	Strand	+
Start	1	End	5912
Name	OJ000302_20.0420.C9.o1.np	Method	AAT/NAP

Start	1	End	1217
GI	4432844	Score	358
Exons	1..420, 745..846, 1128..1217		
GI Descrip.	(AC006283) unknown protein [Arabidopsis thaliana]		

Seq. No.	54620	Seq. ID	OJ000302_20.0420.C9
Gene No.	114548	Strand	+
Start	1	End	5912
Name	OJ000302_20.0420.C9.o1.gp	Method	AAT/GAP
Start	323	End	1419
GI	LIB3434-034-P1-K1-F10	Score	918
Exons	323..420, 745..846, 1128..1419		
GI Descrip.	'4432844/gb|AAD20693| 1.0e-50 (AC006283) unknown protein [Arabidopsis thaliana]'		

Seq. No.	54620	Seq. ID	OJ000302_20.0420.C9
Gene No.	114548	Strand	+
Start	1	End	5912
Name	OJ000302_20.0420.C9.o1.gs	Method	GENSCAN
Start	325	End	5912
GI	none	Score	.63
Exons	325..420, 478..846, 1128..1216, 1437..1572, 2435..2614, 2619..2724, 3765..3868, 4005..4034, 4860..4921, 5167..5254, 5694..5912		

Seq. No.	54620	Seq. ID	OJ000302_20.0420.C9
Gene No.	114549	Strand	+
Start	13719	End	19081
Name	OJ000302_20.0420.C9.o2.np	Method	AAT/NAP
Start	13637	End	17852
GI	7484815	Score	1583
Exons	13637..14759, 16946..17852		
GI Descrip.	auxin response factor 7 homolog F6G3.110 - Arabidopsis thaliana gi|4938484|emb|CAB43843.1| (AL078464) transcription factor-like protein [Arabidopsis thaliana] gi|7269908|emb|CAB81001.1| (AL161576) transcription factor-like protein [Arabidopsis thaliana]		

Seq. No.	54620	Seq. ID	OJ000302_20.0420.C9
Gene No.	114549	Strand	+
Start	13719	End	19081
Name	OJ000302_20.0420.C9.o3.gs	Method	GENSCAN
Start	13719	End	19081
GI	none	Score	.88
Exons	13719..14759, 16946..17832, 18979..19081		

Seq. No.	54620	Seq. ID	OJ000302_20.0420.C9
Gene No.	114549	Strand	+
Start	13719	End	19081
Name	OJ000302_20.0420.C9.o2.gp	Method	AAT/GAP
Start	15501	End	17559
GI	24716_1.R1084	Score	1254
Exons	15501..15525, 16946..17559		
GI Descrip.	'4938484/emb|CAB43843.1| 2.0e-29 (AL078464) transcription factor-like protein [Arabidopsis thaliana]'		

Seq. No.	54620	Seq. ID	OJ000302_20.0420.C9

Gene No.	114549	Strand	+
Start	13719	End	19081
Name	OJ000302_20.0420.C9.o3.gp	Method	AAT/GAP
Start	18793	End	18870
GI	4715947	Score	71
Exons	18793..18870		
GI Descrip.	2252840 3.0e-09 (AF013293) contains regions of similarity to Haemophilus influenzae permease (SP:P38767) [Arabidopsis thaliana] >gi_6049882_gb_AAF02797.1_AF195115_17 (AF195115) contains regions of similarity to Haemophilus influenzae permease (SP:P38767) [Arabidopsis thaliana]		

Seq. No.	54620	Seq. ID	OJ000302_20.0420.C9
Gene No.	114550	Strand	+
Start	41606	End	42526
Name	OJ000302_20.0420.C9.o4.np	Method	AAT/NAP
Start	41606	End	42526
GI	6016874	Score	127
Exons	41606..41741, 42305..42526		
GI Descrip.	(AP000570) ESTs C19143(E10020),D25076(R3116) correspond to a region of the predicted gene.; Similar to putative AC9 transposase. (P03010) [Oryza sativa]		

Seq. No.	54620	Seq. ID	OJ000302_20.0420.C9
Gene No.	114551	Strand	+
Start	47813	End	50892
Name	OJ000302_20.0420.C9.o6.gs	Method	GENSCAN
Start	47813	End	50211
GI	none	Score	.85
Exons	47813..48057, 48268..48427, 48533..48615, 48726..48816, 48908..49003, 49498..49611, 49715..49798, 49886..50041, 50137..50211		

Seq. No.	54620	Seq. ID	OJ000302_20.0420.C9
Gene No.	114551	Strand	+
Start	47813	End	50892
Name	OJ000302_20.0420.C9.o5.np	Method	AAT/NAP
Start	47831	End	50892
GI	6524953	Score	1364
Exons	47831..48057, 48268..48431, 48543..48615, 48726..48816, 48908..49003, 49498..49611, 49715..49798, 49886..50041, 50137..50211, 50711..50892		
GI Descrip.	(AF188994) homeodomain-leucine zipper protein interfascicular fiberless 1 [Arabidopsis thaliana]		

Seq. No.	54620	Seq. ID	OJ000302_20.0420.C9
Gene No.	114551	Strand	+
Start	47813	End	50892
Name	OJ000302_20.0420.C9.o4.gp	Method	AAT/GAP
Start	50137	End	50892
GI	42739_1.R1084	Score	336
Exons	50137..50211, 50711..50892		
GI Descrip.	'2145356/emb|CAA72007|·2.0e-65 (Y11122) HD-Zip protein [Arabidopsis thaliana] >gi_3132474 (AC003096) homeobox protein, ATHB-14 [Arabidopsis thaliana]'		

Seq. No.	54620	Seq. ID	OJ000302_20.0420.C9

Gene No.	114552	Strand	-
Start	8076	End	10658
Name	OJ000302_20.0420.C9.o2.gs	Method	GENSCAN
Start	8076	End	10658
GI	none	Score	.44
Exons	8076..8189, 8833..8990, 9651..9778, 10296..10429, 10476..10658		

Seq. No.	54620	Seq. ID	OJ000302_20.0420.C9
Gene No.	114553	Strand	-
Start	22117	End	40693
Name	OJ000302_20.0420.C9.o6.ts	Method	TBLASTX:Soybean
Start	13667	End	13952
GI	none	Score	137
Exons	13667..13759, 13680..13760, 13842..13952		

Seq. No.	54620	Seq. ID	OJ000302_20.0420.C9
Gene No.	114553	Strand	-
Start	22117	End	40693
Name	OJ000302_20.0420.C9.o2.tm	Method	TBLASTX:Maize
Start	13842	End	14303
GI	none	Score	155
Exons	13842..13967, 13847..13927, 14001..14303, 14024..14302		

Seq. No.	54620	Seq. ID	OJ000302_20.0420.C9
Gene No.	114553	Strand	-
Start	22117	End	40693
Name	OJ000302_20.0420.C9.o2.ts	Method	TBLASTX:Soybean
Start	13983	End	14294
GI	none	Score	429
Exons	13983..14294, 14024..14287		

Seq. No.	54620	Seq. ID	OJ000302_20.0420.C9
Gene No.	114553	Strand	-
Start	22117	End	40693
Name	OJ000302_20.0420.C9.o2.tc	Method	TBLASTX:Cress
Start	14033	End	14333
GI	none	Score	482
Exons	14033..14332, 14034..14333		

Seq. No.	54620	Seq. ID	OJ000302_20.0420.C9
Gene No.	114553	Strand	-
Start	22117	End	40693
Name	OJ000302_20.0420.C9.o3.ts	Method	TBLASTX:Soybean
Start	14483	End	17491
GI	none	Score	372
Exons	14483..14761, 14499..14804, 16936..17064, 16942..17076, 16943..17119, 16943..17077, 17153..17248, 17155..17250, 17178..17267, 17179..17250, 17236..17268, 17237..17269, 17318..17491		

Seq. No.	54620	Seq. ID	OJ000302_20.0420.C9
Gene No.	114553	Strand	-
Start	22117	End	40693
Name	OJ000302_20.0420.C9.o4.tc	Method	TBLASTX:Cress
Start	14495	End	14729
GI	none	Score	283
Exons	14495..14725, 14499..14729		

Seq. No.	54620	Seq. ID	OJ000302_20.0420.C9
Gene No.	114553	Strand	-
Start	22117	End	40693
Name	OJ000302_20.0420.C9.o1.tm	Method	TBLASTX:Maize
Start	17070	End	18037
GI	none	Score	308
Exons	17070..17264, 17071..17265, 17072..17281, 17279..17422, 17281..17424, 17282..17422, 17296..17424, 17399..17506, 17413..17496, 17425..17508, 17615..17830, 17616..17819, 17617..17832, 17936..18037, 17938..18033		

Seq. No.	54620	Seq. ID	OJ000302_20.0420.C9
Gene No.	114553	Strand	-
Start	22117	End	40693
Name	OJ000302_20.0420.C9.o1.tw	Method	TBLASTX:Wheat
Start	17473	End	18019
GI	none	Score	416
Exons	17473..17832, 17473..17832, 17930..18019, 17938..18018, 17942..18019		

Seq. No.	54620	Seq. ID	OJ000302_20.0420.C9
Gene No.	114553	Strand	-
Start	22117	End	40693
Name	OJ000302_20.0420.C9.o4.ts	Method	TBLASTX:Soybean
Start	17627	End	17977
GI	none	Score	261
Exons	17627..17830, 17629..17832, 17936..17977		

Seq. No.	54620	Seq. ID	OJ000302_20.0420.C9
Gene No.	114553	Strand	-
Start	22117	End	40693
Name	OJ000302_20.0420.C9.o4.gs	Method	GENSCAN
Start	22117	End	40693
GI	none	Score	.41
Exons	22117..22170, 23877..24087, 24395..24535, 24902..24986, 26112..26324, 26705..26814, 27564..27717, 28570..28604, 29309..29365, 32024..32128, 32442..32608, 32889..33066, 33151..33205, 33822..33943, 35975..36048, 37684..37767, 40652..40693		

Seq. No.	54620	Seq. ID	OJ000302_20.0420.C9
Gene No.	114553	Strand	-
Start	22117	End	40693
Name	OJ000302_20.0420.C9.o3.np	Method	AAT/NAP
Start	22499	End	24173
GI	6539588	Score	296
Exons	22499..22517, 23846..24173		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	54620	Seq. ID	OJ000302_20.0420.C9
Gene No.	114554	Strand	
Start	47896	End	48816
Name	OJ000302_20.0420.C9.o2.tw	Method	TBLASTX:Wheat
Start	47896	End	48622
GI	none	Score	262
Exons	47896..48060, 47897..48058, 48013..48060, 48262..48426,		

48266..48436, 48511..48615, 48532..48618, 48533..48622

Seq. No.	54620	Seq. ID	OJ000302_20.0420.C9
Gene No.	114554	Strand	
Start	47896	End	48816
Name	OJ000302_20.0420.C9.o3.tc	Method	TBLASTX:Cress
Start	47897	End	48816
GI	none	Score	260
Exons	47897..48058, 47899..48060, 48262..48399, 48266..48436, 48403..48444, 48548..48592, 48581..48604, 48726..48815, 48727..48816		

Seq. No.	54620	Seq. ID	OJ000302_20.0420.C9
Gene No.	114554	Strand	
Start	47896	End	48816
Name	OJ000302_20.0420.C9.o5.ts	Method	TBLASTX:Soybean
Start	47897	End	48792
GI	none	Score	260
Exons	47897..48058, 47899..48060, 47995..48060, 48265..48399, 48266..48430, 48551..48604, 48726..48791, 48727..48792		

Seq. No.	54620	Seq. ID	OJ000302_20.0420.C9
Gene No.	114554	Strand	
Start	47896	End	48816
Name	OJ000302_20.0420.C9.o4.tm	Method	TBLASTX:Maize
Start	48267	End	48770
GI	none	Score	256
Exons	48267..48428, 48269..48436, 48511..48615, 48530..48613, 48535..48660, 48536..48622, 48721..48768, 48726..48770, 48726..48767		

Seq. No.	54620	Seq. ID	OJ000302_20.0420.C9
Gene No.	114555	Strand	
Start	48907	End	50830
Name	OJ000302_20.0420.C9.o1.tc	Method	TBLASTX:Cress
Start	48907	End	50830
GI	none	Score	130
Exons	48907..49002, 48908..49006, 49458..49610, 49491..49610, 49492..49611, 49706..49801, 49711..49824, 49712..49804, 49714..49818, 49876..50040, 49886..50041, 49943..50041, 50134..50223, 50134..50208, 50699..50830, 50710..50817		

Seq. No.	54620	Seq. ID	OJ000302_20.0420.C9
Gene No.	114555	Strand	
Start	48907	End	50830
Name	OJ000302_20.0420.C9.o3.tm	Method	TBLASTX:Maize
Start	48913	End	50830
GI	none	Score	154
Exons	48913..49011, 48914..49018, 49501..49614, 49503..49610, 49704..49799, 49706..49801, 49714..49803, 49876..50046, 49880..50041, 50134..50208, 50140..50208, 50699..50830, 50710..50817, 50711..50830		

Seq. No.	54620	Seq. ID	OJ000302_20.0420.C9
Gene No.	114555	Strand	
Start	48907	End	50830
Name	OJ000302_20.0420.C9.o1.ts	Method	TBLASTX:Soybean

Start	48922	End	50825
GI	none	Score	108
Exons	48922..49002, 48926..49006, 49458..49607, 49491..49610, 49495..49611, 49495..49641, 49706..49801, 49714..49818, 49876..50046, 49880..50041, 49885..50046, 50134..50223, 50134..50223, 50699..50818, 50709..50825, 50710..50817		

Seq. No.	54620	Seq. ID	OJ000302_20.0420.C9
Gene No.	114555	Strand	
Start	48907	End	50830
Name	OJ000302_20.0420.C9.o3.tw	Method	TBLASTX:Wheat
Start	48944	End	50202
GI	none	Score	91
Exons	48944..49006, 48949..49005, 49495..49611, 49503..49610, 49706..49801, 49720..49797, 49856..50041, 49864..50040, 49943..50041, 50134..50175, 50137..50202		

Seq. No.	54621	Seq. ID	OJ000302_20.0420.C10
Gene No.	114556	Strand	+
Start	1	End	4740
Name	OJ000302_20.0420.C10.o1.gp	Method	AAT/GAP
Start	1	End	937
GI	42739_1.R1084	Score	710
Exons	1..154, 298..486, 863..937		
GI Descrip.	'2145356/emb|CAA72007| 2.0e-65 (Y11122) HD-Zip protein [Arabidopsis thaliana] >gi_3132474 (AC003096) homeobox protein, ATHB-14 [Arabidopsis thaliana]'		

Seq. No.	54621	Seq. ID	OJ000302_20.0420.C10
Gene No.	114556	Strand	+
Start	1	End	4740
Name	OJ000302_20.0420.C10.o1.np	Method	AAT/NAP
Start	1	End	2643
GI	7229679	Score	1143
Exons	1..154, 298..486, 863..943, 1087..1236, 1473..1795, 1969..2074, 2200..2349, 2500..2643		
GI Descrip.	(AF233592) REVOLUTA [Arabidopsis thaliana]		

Seq. No.	54621	Seq. ID	OJ000302_20.0420.C10
Gene No.	114556	Strand	+
Start	1	End	4740
Name	OJ000302_20.0420.C10.o1.tm	Method	TBLASTX:Maize
Start	1	End	2652
GI	none	Score	78
Exons	1..72, 1..63, 2..163, 3..68, 25..153, 68..154, 296..484, 297..485, 297..485, 316..489, 854..946, 1073..1222, 1074..1220, 1078..1221, 1081..1227, 1472..1534, 1473..1535, 1536..1793, 1543..1758, 1544..1792, 1949..2074, 1950..2063, 1952..2074, 1972..2076, 2181..2351, 2193..2348, 2194..2364, 2479..2652, 2498..2611, 2526..2645		

Seq. No.	54621	Seq. ID	OJ000302_20.0420.C10
Gene No.	114556	Strand	+
Start	1	End	4740
Name	OJ000302_20.0420.C10.o1.gs	Method	GENSCAN
Start	23	End	3971
GI	none	Score	.63

Exons	23..154, 298..486, 863..943, 1087..1221, 1473..1685, 2200..2349, 2500..2640, 3158..3303, 3510..3632, 3881..3971		
Seq. No.	54621	Seq. ID	OJ000302_20.0420.C10
Gene No.	114556	Strand	+
Start	1	End	4740
Name	OJ000302_20.0420.C10.o1.ts	Method	TBLASTX:Soybean
Start	860	End	2672
GI	none	Score	96
Exons	860..946, 988..1218, 1092..1217, 1470..1556, 1500..1553, 1533..1793, 1574..1792, 1952..2089, 2205..2348, 2206..2364, 2209..2364, 2467..2601, 2532..2672, 2587..2646		
Seq. No.	54621	Seq. ID	OJ000302_20.0420.C10
Gene No.	114556	Strand	+
Start	1	End	4740
Name	OJ000302_20.0420.C10.o1.tc	Method	TBLASTX:Cress
Start	1664	End	2346
GI	none	Score	91
Exons	1664..1792, 1664..1792, 1692..1796, 1952..2089, 2205..2333, 2206..2346		
Seq. No.	54621	Seq. ID	OJ000302_20.0420.C10
Gene No.	114556	Strand	+
Start	1	End	4740
Name	OJ000302_20.0420.C10.o1.tw	Method	TBLASTX:Wheat
Start	1718	End	2351
GI	none	Score	120
Exons	1718..1792, 1719..1796, 1720..1797, 1721..1798, 1949..2077, 1952..2074, 2193..2348, 2194..2349, 2198..2350, 2199..2351		
Seq. No.	54621	Seq. ID	OJ000302_20.0420.C10
Gene No.	114556	Strand	+
Start	1	End	4740
Name	OJ000302_20.0420.C10.o2.gp	Method	AAT/GAP
Start	2192	End	2995
GI	29092_2.R1084	Score	1192
Exons	2192..2349, 2500..2995		
GI Descrip.	'2145356/emb|CAA72007| 1.0e-27 (Y11122) HD-Zip protein [Arabidopsis thaliana] >gi_3132474 (AC003096) homeobox protein, ATHB-14 [Arabidopsis thaliana]'		
Seq. No.	54621	Seq. ID	OJ000302_20.0420.C10
Gene No.	114556	Strand	+
Start	1	End	4740
Name	OJ000302_20.0420.C10.o2.tc	Method	TBLASTX:Cress
Start	2488	End	2661
GI	none	Score	196
Exons	2488..2661, 2526..2654		
Seq. No.	54621	Seq. ID	OJ000302_20.0420.C10
Gene No.	114556	Strand	+
Start	1	End	4740
Name	OJ000302_20.0420.C10.o2.np	Method	AAT/NAP
Start	3175	End	4740
GI	6815109	Score	183
Exons	3175..3293, 4344..4740		

GI Descrip. (AP001081) hypothetical protein [Oryza sativa]

Seq. No.	54621	Seq. ID	OJ000302_20.0420.C10
Gene No.	114556	Strand	+
Start	1	End	4740
Name	OJ000302_20.0420.C10.o3.np	Method	AAT/NAP
Start	3376	End	4740
GI	6815109	Score	182
Exons	3376..3479, 4355..4740		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	54622	Seq. ID	OJ000302_20.0420.C11
Gene No.	114557	Strand	+
Start	1	End	5205
Name	OJ000302_20.0420.C11.o1.np	Method	AAT/NAP
Start	1	End	3522
GI	5042454	Score	256
Exons	1..74, 539..898, 3499..3522		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	54622	Seq. ID	OJ000302_20.0420.C11
Gene No.	114557	Strand	+
Start	1	End	5205
Name	OJ000302_20.0420.C11.o2.np	Method	AAT/NAP
Start	1397	End	5205
GI	6815109	Score	197
Exons	1397..1536, 2446..2672, 5061..5205		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	54622	Seq. ID	OJ000302_20.0420.C11
Gene No.	114557	Strand	+
Start	1	End	5205
Name	OJ000302_20.0420.C11.o3.np	Method	AAT/NAP
Start	3582	End	5205
GI	7340909	Score	141
Exons	3582..3675, 4881..5205		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	54623	Seq. ID	OJ000302_20.0420.C12
Gene No.	114558	Strand	+
Start	2865	End	3339
Name	OJ000302_20.0420.C12.o1.gp	Method	AAT/GAP
Start	2865	End	3339
GI	none	Score	929
Exons	2865..3339		

Seq. No.	54623	Seq. ID	OJ000302_20.0420.C12
Gene No.	114559	Strand	-
Start	2471	End	4271
Name	OJ000302_20.0420.C12.o1.np	Method	AAT/NAP
Start	2471	End	4271
GI	4432839	Score	296
Exons	2471..2529, 3620..4271		
GI Descrip.	(AC006283) unknown protein [Arabidopsis thaliana]		

Seq. No.	54623	Seq. ID	OJ000302_20.0420.C12
Gene No.	114559	Strand	-

Start	2471	End	4271
Name	OJ000302_20.0420.C12.o2.gs	Method	GENSCAN
Start	3228	End	4104
GI	none	Score	.73
Exons	3228..3844, 3982..4104		

Seq. No.	54623	Seq. ID	OJ000302_20.0420.C12
Gene No.	114559	Strand	-
Start	2471	End	4271
Name	OJ000302_20.0420.C12.o2.gp	Method	AAT/GAP
Start	3558	End	4230
GI	33934_1.R1084	Score	1302
Exons	3558..4230		
GI Descrip.	'4432839/gb|AAD20688| 1.0e-24 (AC006283) unknown protein [Arabidopsis thaliana]'		

Seq. No.	54623	Seq. ID	OJ000302_20.0420.C12
Gene No.	114559	Strand	-
Start	2471	End	4271
Name	OJ000302_20.0420.C12.o2.tm	Method	TBLASTX:Maize
Start	3781	End	3984
GI	none	Score	198
Exons	3781..3981, 3783..3968, 3783..3983, 3784..3984		

Seq. No.	54623	Seq. ID	OJ000302_20.0420.C12
Gene No.	114559	Strand	-
Start	2471	End	4271
Name	OJ000302_20.0420.C12.o1.tm	Method	TBLASTX:Maize
Start	3984	End	4271
GI	none	Score	256
Exons	3984..4262, 3984..4271, 4133..4267		

Seq. No.	54624	Seq. ID	OJ000302_20.0420.C13
Gene No.	114560	Strand	+
Start	12871	End	16008
Name	OJ000302_20.0420.C13.o3.gs	Method	GENSCAN
Start	12871	End	16008
GI	none	Score	.45
Exons	12871..12962, 13036..13131, 13279..13377, 13414..13716, 14645..14776, 15206..15345, 15411..15554, 15674..16008		

Seq. No.	54624	Seq. ID	OJ000302_20.0420.C13
Gene No.	114561	Strand	+
Start	16130	End	18881
Name	OJ000302_20.0420.C13.o2.np	Method	AAT/NAP
Start	16127	End	18881
GI	1706331	Score	352
Exons	16127..16415, 16514..16564, 18822..18881		
GI Descrip.	PYRUVATE DECARBOXYLASE ISOZYME 3 (PDC) gi|476284 (U07338) pyruvate decarboxylase [Oryza sativa]		

Seq. No.	54624	Seq. ID	OJ000302_20.0420.C13
Gene No.	114561	Strand	+
Start	16130	End	18881
Name	OJ000302_20.0420.C13.o4.gs	Method	GENSCAN
Start	16130	End	16651
GI	none	Score	1

Exons	16130..16651		
Seq. No.	54624	Seq. ID	OJ000302_20.0420.C13
Gene No.	114562	Strand	-
Start	705	End	4146
Name	OJ000302_20.0420.C13.o1.np	Method	AAT/NAP
Start	705	End	4146
GI	4432839	Score	636
Exons	705..924, 3901..4146		
GI Descrip.	(AC006283) unknown protein [Arabidopsis thaliana]		
Seq. No.	54624	Seq. ID	OJ000302_20.0420.C13
Gene No.	114563	Strand	-
Start	4086	End	4345
Name	OJ000302_20.0420.C13.o1.gp	Method	AAT/GAP
Start	4086	End	4345
GI	428568	Score	474
Exons	4086..4345		
Seq. No.	54624	Seq. ID	OJ000302_20.0420.C13
Gene No.	114564	Strand	-
Start	17088	End	18213
Name	OJ000302_20.0420.C13.o5.gs	Method	GENSCAN
Start	17088	End	18213
GI	none	Score	.8
Exons	17088..17288, 17452..17517, 17774..17941, 18094..18213		
Seq. No.	54624	Seq. ID	OJ000302_20.0420.C13
Gene No.	114565	Strand	-
Start	22471	End	23949
Name	OJ000302_20.0420.C13.o1.tm	Method	TBLASTX:Maize
Start	695	End	4309
GI	none	Score	243
Exons	695..934, 706..924, 707..925, 781..912, 3916..4146, 3992..4147, 4015..4146, 4232..4309		
Seq. No.	54624	Seq. ID	OJ000302_20.0420.C13
Gene No.	114565	Strand	-
Start	22471	End	23949
Name	OJ000302_20.0420.C13.o2.tc	Method	TBLASTX:Cress
Start	695	End	4147
GI	none	Score	194
Exons	695..925, 704..886, 706..924, 781..912, 3901..4146, 4001..4147, 4007..4147, 4015..4146		
Seq. No.	54624	Seq. ID	OJ000302_20.0420.C13
Gene No.	114565	Strand	-
Start	22471	End	23949
Name	OJ000302_20.0420.C13.o2.ts	Method	TBLASTX:Soybean
Start	781	End	4147
GI	none	Score	161
Exons	781..912, 3901..4146, 4007..4147, 4010..4147		
Seq. No.	54624	Seq. ID	OJ000302_20.0420.C13
Gene No.	114565	Strand	-
Start	22471	End	23949
Name	OJ000302_20.0420.C13.o1.ts	Method	TBLASTX:Soybean

Start	16042	End	16420
GI	none	Score	340
Exons	16042..16068, 16169..16420, 16180..16419		

Seq. No.	54624	Seq. ID	OJ000302_20.0420.C13
Gene No.	114565	Strand	-
Start	22471	End	23949
Name	OJ000302_20.0420.C13.o2.tm	Method	TBLASTX:Maize
Start	16142	End	16420
GI	none	Score	151
Exons	16142..16312, 16190..16294, 16192..16311, 16309..16344, 16310..16390, 16370..16420, 16370..16414		

Seq. No.	54624	Seq. ID	OJ000302_20.0420.C13
Gene No.	114565	Strand	-
Start	22471	End	23949
Name	OJ000302_20.0420.C13.o1.tc	Method	TBLASTX:Cress
Start	16192	End	16420
GI	none	Score	319
Exons	16192..16344, 16193..16420		

Seq. No.	54624	Seq. ID	OJ000302_20.0420.C13
Gene No.	114565	Strand	-
Start	22471	End	23949
Name	OJ000302_20.0420.C13.o7.gs	Method	GENSCAN
Start	22471	End	23949
GI	none	Score	.92
Exons	22471..22531, 23397..23517, 23739..23949		

Seq. No.	54625	Seq. ID	OJ000302_20.0420.C14
Gene No.	114566	Strand	+
Start	10457	End	16123
Name	OJ000302_20.0420.C14.o2.gs	Method	GENSCAN
Start	10457	End	16123
GI	none	Score	.68
Exons	10457..10504, 10839..11042, 11110..11412, 11434..11641, 11999..12131, 12978..13024, 14487..14837, 14863..14980, 15663..15906, 15932..16123		

Seq. No.	54625	Seq. ID	OJ000302_20.0420.C14
Gene No.	114566	Strand	+
Start	10457	End	16123
Name	OJ000302_20.0420.C14.o1.np	Method	AAT/NAP
Start	10828	End	12109
GI	7209562	Score	945
Exons	10828..11412, 11501..11641, 11999..12109		
GI Descrip.	(AB030698) Plasma membrane aquaporin 2c [Raphanus sativus]		

Seq. No.	54625	Seq. ID	OJ000302_20.0420.C14
Gene No.	114567	Strand	+
Start	16472	End	16554
Name	OJ000302_20.0420.C14.o3.gp	Method	AAT/GAP
Start	16472	End	16554
GI	LIB3477-003-P1-K1-E9	Score	97
Exons	16472..16554		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza		

sativa]'

Seq. No.	54625	Seq. ID	OJ000302_20.0420.C14
Gene No.	114568	Strand	-
Start	15688	End	16062
Name	OJ000302_20.0420.C14.o1.ts	Method	TBLASTX:Soybean
Start	10779	End	12100
GI	none	Score	176
Exons	10779..11003, 10819..11010, 11088..11228, 11092..11229, 11224..11415, 11500..11637, 11510..11638, 11999..12100, 12001..12099		

Seq. No.	54625	Seq. ID	OJ000302_20.0420.C14
Gene No.	114568	Strand	-
Start	15688	End	16062
Name	OJ000302_20.0420.C14.o1.tc	Method	TBLASTX:Cress
Start	10866	End	12106
GI	none	Score	184
Exons	10866..11003, 10867..11010, 11088..11228, 11092..11229, 11224..11415, 11340..11453, 11500..11637, 11510..11638, 11999..12106, 12001..12105		

Seq. No.	54625	Seq. ID	OJ000302_20.0420.C14
Gene No.	114568	Strand	-
Start	15688	End	16062
Name	OJ000302_20.0420.C14.o1.tm	Method	TBLASTX:Maize
Start	10866	End	12135
GI	none	Score	179
Exons	10866..11009, 10867..11016, 11088..11228, 11092..11229, 11107..11229, 11182..11340, 11224..11415, 11340..11453, 11499..11558, 11500..11637, 11510..11716, 11996..12103, 11999..12100, 12001..12135		

Seq. No.	54625	Seq. ID	OJ000302_20.0420.C14
Gene No.	114568	Strand	-
Start	15688	End	16062
Name	OJ000302_20.0420.C14.o1.tw	Method	TBLASTX:Wheat
Start	10866	End	12100
GI	none	Score	180
Exons	10866..11009, 10867..11016, 11088..11228, 11092..11229, 11107..11229, 11224..11415, 11340..11453, 11499..11546, 11499..11558, 11500..11640, 11510..11641, 11999..12022, 12017..12100		

Seq. No.	54625	Seq. ID	OJ000302_20.0420.C14
Gene No.	114568	Strand	-
Start	15688	End	16062
Name	OJ000302_20.0420.C14.o3.tm	Method	TBLASTX:Maize
Start	14592	End	14822
GI	none	Score	164
Exons	14592..14696, 14603..14698, 14778..14822		

Seq. No.	54625	Seq. ID	OJ000302_20.0420.C14
Gene No.	114568	Strand	-
Start	15688	End	16062
Name	OJ000302_20.0420.C14.o2.np	Method	AAT/NAP
Start	15688	End	16059

GI	6652874	Score	206
Exons	15688..16059		
GI Descrip.	(AF118926) glutathione S-transferase 3 [Papaver somniferum]		

Seq. No.	54625	Seq. ID	OJ000302_20.0420.C14
Gene No.	114568	Strand	-
Start	15688	End	16062
Name	OJ000302_20.0420.C14.o2.tm	Method	TBLASTX:Maize
Start	15725	End	16062
GI	none	Score	257
Exons	15725..16060, 15730..16062		

Seq. No.	54625	Seq. ID	OJ000302_20.0420.C14
Gene No.	114568	Strand	-
Start	15688	End	16062
Name	OJ000302_20.0420.C14.o2.ts	Method	TBLASTX:Soybean
Start	15725	End	15979
GI	none	Score	126
Exons	15725..15979, 15733..15972		

Seq. No.	54625	Seq. ID	OJ000302_20.0420.C14
Gene No.	114568	Strand	-
Start	15688	End	16062
Name	OJ000302_20.0420.C14.o2.tc	Method	TBLASTX:Cress
Start	15748	End	16014
GI	none	Score	188
Exons	15748..16014		

Seq. No.	54625	Seq. ID	OJ000302_20.0420.C14
Gene No.	114568	Strand	-
Start	15688	End	16062
Name	OJ000302_20.0420.C14.o2.tw	Method	TBLASTX:Wheat
Start	15754	End	16018
GI	none	Score	132
Exons	15754..16017, 15755..16018		

Seq. No.	54626	Seq. ID	OJ000302_20.0420.C26
Gene No.	114569	Strand	-
Start	1	End	1224
Name	OJ000302_20.0420.C26.o1.gp	Method	AAT/GAP
Start	1	End	363
GI	4671_1.R1084	Score	402
Exons	1..227, 325..363		
GI Descrip.	'4544428/gb|AAD22337.1|AC006955_23 7.0e-33 (AC006955) unknown protein [Arabidopsis thaliana]'		

Seq. No.	54626	Seq. ID	OJ000302_20.0420.C26
Gene No.	114569	Strand	-
Start	1	End	1224
Name	OJ000302_20.0420.C26.o1.np	Method	AAT/NAP
Start	1	End	1224
GI	4544428	Score	220
Exons	1..227, 325..360, 1167..1224		
GI Descrip.	(AC006955) unknown protein [Arabidopsis thaliana]		

Seq. No.	54626	Seq. ID	OJ000302_20.0420.C26
Gene No.	114569	Strand	-

Start	1	End	1224
Name	OJ000302_20.0420.C26.o1.tm	Method	TBLASTX:Maize
Start	1	End	366
GI	none	Score	36
Exons	1..15, 21..269, 23..271, 23..286, 24..272, 118..321, 277..363, 294..362, 295..366		

Seq. No.	54626	Seq. ID	OJ000302_20.0420.C26
Gene No.	114569	Strand	-
Start	1	End	1224
Name	OJ000302_20.0420.C26.o1.ts	Method	TBLASTX:Soybean
Start	20	End	366
GI	none	Score	146
Exons	20..232, 24..224, 26..226, 322..366, 324..362		

Seq. No.	54626	Seq. ID	OJ000302_20.0420.C26
Gene No.	114569	Strand	-
Start	1	End	1224
Name	OJ000302_20.0420.C26.o1.tc	Method	TBLASTX:Cress
Start	23	End	366
GI	none	Score	65
Exons	23..70, 24..74, 80..232, 84..224, 310..366		

Seq. No.	54626	Seq. ID	OJ000302_20.0420.C26
Gene No.	114569	Strand	-
Start	1	End	1224
Name	OJ000302_20.0420.C26.o1.gs	Method	GENSCAN
Start	26	End	227
GI	none	Score	.94
Exons	26..227		

Seq. No.	54627	Seq. ID	OJ000302_14.0419.C4
Gene No.	114570	Strand	+
Start	1	End	317
Name	OJ000302_14.0419.C4.o1.np	Method	AAT/NAP
Start	1	End	317
GI	6498436	Score	153
Exons	1..317		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	54627	Seq. ID	OJ000302_14.0419.C4
Gene No.	114571	Strand	-
Start	1	End	1241
Name	OJ000302_14.0419.C4.o2.np	Method	AAT/NAP
Start	1	End	1241
GI	5852180	Score	346
Exons	1..22, 666..1053, 1104..1241		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	54628	Seq. ID	OJ000302_14.0419.C6
Gene No.	114572	Strand	+
Start	1	End	1115
Name	OJ000302_14.0419.C6.o1.np	Method	AAT/NAP
Start	1	End	1115
GI	4680179	Score	869
Exons	1..75, 136..277, 310..1115		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	54628	Seq. ID	OJ000302_14.0419.C6
Gene No.	114572	Strand	+
Start	1	End	1115
Name	OJ000302_14.0419.C6.o1.gs	Method	GENSCAN
Start	91	End	1056
GI	none	Score	.78
Exons	91..288, 294..363, 755..1056		

Seq. No.	54628	Seq. ID	OJ000302_14.0419.C6
Gene No.	114572	Strand	+
Start	1	End	1115
Name	OJ000302_14.0419.C6.o2.tw	Method	TBLASTX:Wheat
Start	312	End	679
GI	none	Score	151
Exons	312..518, 368..454, 559..678, 560..679		

Seq. No.	54628	Seq. ID	OJ000302_14.0419.C6
Gene No.	114572	Strand	+
Start	1	End	1115
Name	OJ000302_14.0419.C6.o1.tw	Method	TBLASTX:Wheat
Start	843	End	1115
GI	none	Score	266
Exons	843..1115, 847..1113		

Seq. No.	54628	Seq. ID	OJ000302_14.0419.C6
Gene No.	114572	Strand	+
Start	1	End	1115
Name	OJ000302_14.0419.C6.o1.tm	Method	TBLASTX:Maize
Start	858	End	1115
GI	none	Score	267
Exons	858..1115, 859..1113		

Seq. No.	54629	Seq. ID	OJ000302_14.0419.C7
Gene No.	114573	Strand	+
Start	1	End	729
Name	OJ000302_14.0419.C7.o1.np	Method	AAT/NAP
Start	1	End	729
GI	7485896	Score	282
Exons	1..22, 300..729		
GI Descrip.	hypothetical protein F2009.170 - Arabidopsis thaliana		

Seq. No.	54629	Seq. ID	OJ000302_14.0419.C7
Gene No.	114573	Strand	+
Start	1	End	729
Name	OJ000302_14.0419.C7.o1.gs	Method	GENSCAN
Start	81	End	713
GI	none	Score	1
Exons	81..713		

Seq. No.	54629	Seq. ID	OJ000302_14.0419.C7
Gene No.	114573	Strand	+
Start	1	End	729
Name	OJ000302_14.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	297	End	481
GI	none	Score	279
Exons	297..479, 300..476, 311..481, 329..481		

Seq. No.	54629	Seq. ID	OJ000302_14.0419.C7
Gene No.	114573	Strand	+
Start	1	End	729
Name	OJ000302_14.0419.C7.o1.tc	Method	TBLASTX:Cress
Start	303	End	602
GI	none	Score	253
Exons	303..602, 338..601		

Seq. No.	54629	Seq. ID	OJ000302_14.0419.C7
Gene No.	114573	Strand	+
Start	1	End	729
Name	OJ000302_14.0419.C7.o1.ts	Method	TBLASTX:Soybean
Start	315	End	539
GI	none	Score	206
Exons	315..539, 338..529		

Seq. No.	54630	Seq. ID	OJ000302_14.0419.C8
Gene No.	114574	Strand	+
Start	50	End	154
Name	OJ000302_14.0419.C8.o1.gs	Method	GENSCAN
Start	50	End	154
GI	none	Score	.45
Exons	50..154		

Seq. No.	54631	Seq. ID	OJ000302_14.0419.C21
Gene No.	114575	Strand	+
Start	1	End	135
Name	OJ000302_14.0419.C21.o1.np	Method	AAT/NAP
Start	1	End	135
GI	4680186	Score	191
Exons	1..135		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	54631	Seq. ID	OJ000302_14.0419.C21
Gene No.	114576	Strand	+
Start	1017	End	1450
Name	OJ000302_14.0419.C21.o2.np	Method	AAT/NAP
Start	1017	End	1450
GI	4680185	Score	417
Exons	1017..1450		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	54631	Seq. ID	OJ000302_14.0419.C21
Gene No.	114577	Strand	-
Start	262	End	2724
Name	OJ000302_14.0419.C21.o3.np	Method	AAT/NAP
Start	262	End	2724
GI	5852175	Score	89
Exons	262..401, 2259..2406, 2645..2724		
GI Descrip.	(AL117265) zhb0005.1 [Oryza sativa]		

Seq. No.	54632	Seq. ID	OJ000302_14.0419.C22
Gene No.	114578	Strand	-
Start	352	End	1190
Name	OJ000302_14.0419.C22.o1.gs	Method	GENSCAN
Start	352	End	1190

GI	none	Score	.41
Exons	352..444, 486..565, 1085..1190		

Seq. No.	54633	Seq. ID	OJ000302_14.0419.C24
Gene No.	114579	Strand	+
Start	105	End	1767
Name	OJ000302_14.0419.C24.o1.gs	Method	GENSCAN
Start	105	End	794
GI	none	Score	.76
Exons	105..242, 260..459, 486..603, 612..794		

Seq. No.	54633	Seq. ID	OJ000302_14.0419.C24
Gene No.	114579	Strand	+
Start	105	End	1767
Name	OJ000302_14.0419.C24.o1.np	Method	AAT/NAP
Start	443	End	1767
GI	6566263	Score	231
Exons	443..790, 1717..1767		
GI Descrip.	(AB008015) similar to xylan endohydrolase [Arabidopsis thaliana]		

Seq. No.	54633	Seq. ID	OJ000302_14.0419.C24
Gene No.	114579	Strand	+
Start	105	End	1767
Name	OJ000302_14.0419.C24.o1.tm	Method	TBLASTX:Maize
Start	496	End	773
GI	none	Score	120
Exons	496..642, 516..635, 639..773, 647..742		

Seq. No.	54633	Seq. ID	OJ000302_14.0419.C24
Gene No.	114579	Strand	+
Start	105	End	1767
Name	OJ000302_14.0419.C24.o1.tc	Method	TBLASTX:Cress
Start	598	End	773
GI	none	Score	43
Exons	598..639, 642..773, 647..742		

Seq. No.	54634	Seq. ID	OJ000302_14.0419.C31
Gene No.	114580	Strand	
Start	14	End	919
Name	OJ000302_14.0419.C31.o1.tm	Method	TBLASTX:Maize
Start	14	End	919
GI	none	Score	293
Exons	14..196, 15..209, 25..237, 32..169, 74..193, 162..230, 280..363, 284..376, 294..365, 417..461, 447..497, 548..703, 548..706, 788..919, 816..917		

Seq. No.	54635	Seq. ID	OJ000302_14.0419.C33
Gene No.	114581	Strand	-
Start	1559	End	2028
Name	OJ000302_14.0419.C33.o1.np	Method	AAT/NAP
Start	1559	End	2028
GI	5852180	Score	208
Exons	1559..2028		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	54636	Seq. ID	OJ000302_14.0419.C36
Gene No.	114582	Strand	

Start	2	End	312
Name	OJ000302_14.0419.C36.o1.tm	Method	TBLASTX:Maize
Start	2	End	312
GI	none	Score	133
Exons	2..112, 3..95, 94..180, 95..187, 96..185, 236..289, 252..296, 269..304, 292..312		

Seq. No.	54637	Seq. ID	OJ000302_14.0419.C39
Gene No.	114583	Strand	-
Start	197	End	346
Name	OJ000302_14.0419.C39.o1.gs	Method	GENSCAN
Start	197	End	346
GI	none	Score	.41
Exons	197..346		

Seq. No.	54638	Seq. ID	OJ000322_17.0419.C1
Gene No.	114584	Strand	-
Start	1	End	1209
Name	OJ000322_17.0419.C1.o1.np	Method	AAT/NAP
Start	1	End	1209
GI	6692125	Score	539
Exons	1..217, 302..406, 845..1115, 1189..1209		
GI Descrip.	(AC007654) T19E23.16 [Arabidopsis thaliana]		

Seq. No.	54638	Seq. ID	OJ000322_17.0419.C1
Gene No.	114584	Strand	-
Start	1	End	1209
Name	OJ000322_17.0419.C1.o2.tm	Method	TBLASTX:Maize
Start	108	End	332
GI	none	Score	130
Exons	108..224, 110..232, 111..224, 115..225, 279..332, 279..332		

Seq. No.	54638	Seq. ID	OJ000322_17.0419.C1
Gene No.	114584	Strand	-
Start	1	End	1209
Name	OJ000322_17.0419.C1.o1.gs	Method	GENSCAN
Start	113	End	1060
GI	none	Score	.67
Exons	113..217, 845..1060		

Seq. No.	54638	Seq. ID	OJ000322_17.0419.C1
Gene No.	114584	Strand	-
Start	1	End	1209
Name	OJ000322_17.0419.C1.o1.tm	Method	TBLASTX:Maize
Start	380	End	1096
GI	none	Score	244
Exons	380..418, 843..1061, 844..1062, 845..1096, 845..1072		

Seq. No.	54639	Seq. ID	OJ000322_17.0419.C2
Gene No.	114585	Strand	-
Start	1	End	5935
Name	OJ000322_17.0419.C2.o1.np	Method	AAT/NAP
Start	1	End	2240
GI	6692125	Score	347
Exons	1..31, 132..278, 674..894, 1571..1638, 2215..2240		
GI Descrip.	(AC007654) T19E23.16 [Arabidopsis thaliana]		

Seq. No.	54639	Seq. ID	OJ000322_17.0419.C2
Gene No.	114585	Strand	-
Start	1	End	5935
Name	OJ000322_17.0419.C2.o1.tm	Method	TBLASTX:Maize
Start	117	End	817
GI	none	Score	193
Exons	117..281, 118..279, 669..770, 671..760, 751..807, 755..817		

Seq. No.	54639	Seq. ID	OJ000322_17.0419.C2
Gene No.	114585	Strand	-
Start	1	End	5935
Name	OJ000322_17.0419.C2.o1.gs	Method	GENSCAN
Start	132	End	5935
GI	none	Score	.69
Exons	132..296, 674..894, 1571..1646, 3339..3536, 3790..3972, 3987..4112, 4943..5134, 5864..5935		

Seq. No.	54639	Seq. ID	OJ000322_17.0419.C2
Gene No.	114585	Strand	-
Start	1	End	5935
Name	OJ000322_17.0419.C2.o1.gp	Method	AAT/GAP
Start	779	End	2334
GI	none	Score	826
Exons	779..894, 1571..1646, 2057..2334		

Seq. No.	54640	Seq. ID	OJ000322_17.0419.C3
Gene No.	114586	Strand	+
Start	156	End	748
Name	OJ000322_17.0419.C3.o1.gs	Method	GENSCAN
Start	156	End	748
GI	none	Score	.47
Exons	156..391, 610..748		

Seq. No.	54641	Seq. ID	OJ000322_17.0419.C5
Gene No.	114587	Strand	+
Start	1	End	851
Name	OJ000322_17.0419.C5.o1.gp	Method	AAT/GAP
Start	1	End	368
GI	uC-osflcyp006a04b1	Score	270
Exons	1..29, 108..185, 267..368		
GI Descrip.	'1082337/pir||S50114 1.0e-30 DNA helicase Q1 - human >gi_531243_dbj_BAA07200_ (D37984) DNA helicase Q1 [Homo sapiens]'		

Seq. No.	54641	Seq. ID	OJ000322_17.0419.C5
Gene No.	114587	Strand	+
Start	1	End	851
Name	OJ000322_17.0419.C5.o1.np	Method	AAT/NAP
Start	1	End	851
GI	6692125	Score	160
Exons	1..62, 108..185, 240..353, 828..851		
GI Descrip.	(AC007654) T19E23.16 [Arabidopsis thaliana]		

Seq. No.	54641	Seq. ID	OJ000322_17.0419.C5
Gene No.	114587	Strand	+
Start	1	End	851
Name	OJ000322_17.0419.C5.o1.tm	Method	TBLASTX:Maize

Start	1	End	347
GI	none	Score	49
Exons	1..36, 2..31, 8..79, 98..181, 263..331, 263..331, 264..347, 264..332	106..180, 108..185,	

Seq. No.	54641	Seq. ID	OJ000322_17.0419.C5
Gene No.	114587	Strand	+
Start	1	End	851
Name	OJ000322_17.0419.C5.o1.gs	Method	GENSCAN
Start	273	End	638
GI	none	Score	.5
Exons	273..332, 633..638		

Seq. No.	54642	Seq. ID	OJ000322_17.0419.C6
Gene No.	114588	Strand	+
Start	1	End	1923
Name	OJ000322_17.0419.C6.o1.np	Method	AAT/NAP
Start	1	End	1749
GI	6692125	Score	197
Exons	1..30, 920..1053, 1217..1483, 1547..1749		
GI Descrip.	(AC007654) T19E23.16 [Arabidopsis thaliana]		

Seq. No.	54642	Seq. ID	OJ000322_17.0419.C6
Gene No.	114588	Strand	+
Start	1	End	1923
Name	OJ000322_17.0419.C6.o1.gs	Method	GENSCAN
Start	888	End	1752
GI	none	Score	.81
Exons	888..998, 1297..1473, 1576..1752		

Seq. No.	54642	Seq. ID	OJ000322_17.0419.C6
Gene No.	114588	Strand	+
Start	1	End	1923
Name	OJ000322_17.0419.C6.o1.gp	Method	AAT/GAP
Start	1266	End	1923
GI	none	Score	1006
Exons	1266..1473, 1576..1923		

Seq. No.	54642	Seq. ID	OJ000322_17.0419.C6
Gene No.	114589	Strand	+
Start	2708	End	2938
Name	OJ000322_17.0419.C6.o2.gp	Method	AAT/GAP
Start	2708	End	2938
GI	5038923	Score	431
Exons	2708..2938		

Seq. No.	54642	Seq. ID	OJ000322_17.0419.C6
Gene No.	114590	Strand	+
Start	5656	End	5832
Name	OJ000322_17.0419.C6.o3.gp	Method	AAT/GAP
Start	5656	End	5832
GI	1090_1.R1084	Score	327
Exons	5656..5832		
GI Descrip.	'6016678/gb|AAF01505.1|AC009991_1 1.0e-13 (AC009991) unknown protein [Arabidopsis thaliana]'		

Seq. No.	54642	Seq. ID	OJ000322_17.0419.C6

Gene No.	114591	Strand	-
Start	2767	End	3895
Name	OJ000322_17.0419.C6.o2.tm	Method	TBLASTX:Maize
Start	1399	End	1743
GI	none	Score	96
Exons	1399..1476, 1399..1473, 1401..1475, 1573..1701, 1575..1676, 1684..1743, 1709..1738		

Seq. No.	54642	Seq. ID	OJ000322_17.0419.C6
Gene No.	114591	Strand	-
Start	2767	End	3895
Name	OJ000322_17.0419.C6.o2.gs	Method	GENSCAN
Start	2767	End	3859
GI	none	Score	.91
Exons	2767..3399, 3488..3859		

Seq. No.	54642	Seq. ID	OJ000322_17.0419.C6
Gene No.	114591	Strand	-
Start	2767	End	3895
Name	OJ000322_17.0419.C6.o2.np	Method	AAT/NAP
Start	2924	End	3853
GI	2501578	Score	1315
Exons	2924..3853		
GI Descrip.	ETHYLENE-INDUCIBLE PROTEIN HEVER gi|2129913|pir||S60047 ethylene-responsive protein 1 - Para rubber tree gi|1209317 (M88254) ethylene-inducible protein [Hevea brasiliensis]		

Seq. No.	54642	Seq. ID	OJ000322_17.0419.C6
Gene No.	114591	Strand	-
Start	2767	End	3895
Name	OJ000322_17.0419.C6.o1.tc	Method	TBLASTX:Cress
Start	2939	End	3841
GI	none	Score	42
Exons	2939..2977, 2946..2978, 2978..3367, 2983..3408, 3416..3784, 3417..3458, 3524..3757, 3525..3785, 3806..3841		

Seq. No.	54642	Seq. ID	OJ000322_17.0419.C6
Gene No.	114591	Strand	-
Start	2767	End	3895
Name	OJ000322_17.0419.C6.o1.tm	Method	TBLASTX:Maize
Start	2939	End	3895
GI	none	Score	43
Exons	2939..2977, 2957..2995, 2978..3367, 2983..3408, 3416..3808, 3417..3791, 3791..3859, 3833..3895		

Seq. No.	54642	Seq. ID	OJ000322_17.0419.C6
Gene No.	114591	Strand	-
Start	2767	End	3895
Name	OJ000322_17.0419.C6.o1.ts	Method	TBLASTX:Soybean
Start	2939	End	3859
GI	none	Score	395
Exons	2939..2977, 2960..3367, 2983..3408, 3416..3784, 3417..3785, 3806..3859		

Seq. No.	54643	Seq. ID	OJ000322_17.0419.C7
Gene No.	114592	Strand	-
Start	1	End	873

Name	OJ000322_17.0419.C7.o1.np	Method	AAT/NAP
Start	1	End	873
GI	6016678	Score	235
Exons	1..214, 680..873		
GI Descrip.	(AC009991) unknown protein [Arabidopsis thaliana]		

Seq. No.	54643	Seq. ID	OJ000322_17.0419.C7
Gene No.	114592	Strand	-
Start	1	End	873
Name	OJ000322_17.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	36	End	781
GI	none	Score	187
Exons	36..215, 74..214, 80..223, 118..219, 678..758, 680..781, 680..760		

Seq. No.	54643	Seq. ID	OJ000322_17.0419.C7
Gene No.	114592	Strand	-
Start	1	End	873
Name	OJ000322_17.0419.C7.o1.gs	Method	GENSCAN
Start	74	End	740
GI	none	Score	.77
Exons	74..214, 680..740		

Seq. No.	54643	Seq. ID	OJ000322_17.0419.C7
Gene No.	114592	Strand	-
Start	1	End	873
Name	OJ000322_17.0419.C7.o1.ts	Method	TBLASTX:Soybean
Start	74	End	778
GI	none	Score	138
Exons	74..214, 87..206, 90..224, 127..216, 127..231, 678..758, 680..778, 680..760		

Seq. No.	54643	Seq. ID	OJ000322_17.0419.C7
Gene No.	114592	Strand	-
Start	1	End	873
Name	OJ000322_17.0419.C7.o1.gp	Method	AAT/GAP
Start	162	End	759
GI	LIB3431-021-P1-K1-A3	Score	220
Exons	162..214, 680..759		
GI Descrip.	'6016678/gb|AAF01505.1|AC009991_1 6.0e-30 (AC009991) unknown protein [Arabidopsis thaliana]'		

Seq. No.	54644	Seq. ID	OJ000322_17.0419.C9
Gene No.	114593	Strand	-
Start	1	End	1804
Name	OJ000322_17.0419.C9.o1.np	Method	AAT/NAP
Start	1	End	1777
GI	7485436	Score	181
Exons	1..61, 1555..1777		
GI Descrip.	hypothetical protein F13M22.24 - Arabidopsis thaliana gi|3236256|gb|AAC23644.1| (AC004684) putative C2H2-type zinc finger protein [Arabidopsis thaliana]		

Seq. No.	54644	Seq. ID	OJ000322_17.0419.C9
Gene No.	114593	Strand	-
Start	1	End	1804
Name	OJ000322_17.0419.C9.o1.gs	Method	GENSCAN

Start	1067	End	1804
GI	none	Score	1
Exons	1067..1804		

Seq. No.	54645	Seq. ID	OJ000322_17.0419.C11
Gene No.	114594	Strand	+
Start	1	End	2097
Name	OJ000322_17.0419.C11.o1.gp	Method	AAT/GAP
Start	1	End	210
GI	428899	Score	420
Exons	1..210		
GI Descrip.	3335357 2.0e-25 (AC003028) putative diphenol oxidase [Arabidopsis thaliana] >gi_4895177_gb_AAD32764.1_AC007661_1 (AC007661) putative diphenol oxidase [Arabidopsis thaliana]		

Seq. No.	54645	Seq. ID	OJ000322_17.0419.C11
Gene No.	114594	Strand	+
Start	1	End	2097
Name	OJ000322_17.0419.C11.o1.np	Method	AAT/NAP
Start	1	End	885
GI	3805956	Score	1020
Exons	1..665, 749..885		
GI Descrip.	(Y13769) laccase [Populus balsamifera subsp. trichocarpa]		

Seq. No.	54645	Seq. ID	OJ000322_17.0419.C11
Gene No.	114594	Strand	+
Start	1	End	2097
Name	OJ000322_17.0419.C11.o1.gs	Method	GENSCAN
Start	56	End	2097
GI	none	Score	.81
Exons	56..665, 749..835, 1946..2097		

Seq. No.	54645	Seq. ID	OJ000322_17.0419.C11
Gene No.	114594	Strand	+
Start	1	End	2097
Name	OJ000322_17.0419.C11.o1.tc	Method	TBLASTX:Cress
Start	95	End	502
GI	none	Score	161
Exons	95..241, 95..229, 115..234, 236..502, 263..481, 274..501		

Seq. No.	54645	Seq. ID	OJ000322_17.0419.C11
Gene No.	114594	Strand	+
Start	1	End	2097
Name	OJ000322_17.0419.C11.o1.ts	Method	TBLASTX:Soybean
Start	104	End	879
GI	none	Score	162
Exons	104..232, 136..234, 200..676, 218..670, 420..677, 556..705, 729..878, 747..878, 748..879		

Seq. No.	54645	Seq. ID	OJ000322_17.0419.C11
Gene No.	114594	Strand	+
Start	1	End	2097
Name	OJ000322_17.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	325	End	879
GI	none	Score	313
Exons	325..510, 326..676, 368..661, 556..705, 741..875, 747..815, 748..879		

Seq. No.	54645	Seq. ID	OJ000322_17.0419.C11
Gene No.	114594	Strand	+
Start	1	End	2097
Name	OJ000322_17.0419.C11.o2.tc	Method	TBLASTX:Cress
Start	556	End	882
GI	none	Score	135
Exons	556..678, 557..676, 741..878,	748..882,	748..879

Seq. No.	54646	Seq. ID	OJ000322_17.0419.C12
Gene No.	114595	Strand	-
Start	1	End	3785
Name	OJ000322_17.0419.C12.o1.np	Method	AAT/NAP
Start	1	End	814
GI	7106508	Score	305
Exons	1..29, 133..814		
GI Descrip.	(AP001278) hypothetical protein [Oryza sativa]		

Seq. No.	54646	Seq. ID	OJ000322_17.0419.C12
Gene No.	114595	Strand	-
Start	1	End	3785
Name	OJ000322_17.0419.C12.o1.gs	Method	GENSCAN
Start	113	End	3785
GI	none	Score	.69
Exons	113..503, 1799..2007, 3608..3785		

Seq. No.	54647	Seq. ID	OJ000322_17.0419.C14
Gene No.	114596	Strand	+
Start	247	End	379
Name	OJ000322_17.0419.C14.o1.gs	Method	GENSCAN
Start	247	End	379
GI	none	Score	.99
Exons	247..379		

Seq. No.	54647	Seq. ID	OJ000322_17.0419.C14
Gene No.	114597	Strand	+
Start	1757	End	2222
Name	OJ000322_17.0419.C14.o2.gs	Method	GENSCAN
Start	1757	End	2222
GI	none	Score	.81
Exons	1757..2222		

Seq. No.	54648	Seq. ID	OJ000322_17.0419.C15
Gene No.	114598	Strand	+
Start	1	End	2564
Name	OJ000322_17.0419.C15.o1.np	Method	AAT/NAP
Start	1	End	1128
GI	7485429	Score	991
Exons	1..1128		
GI Descrip.	hypothetical protein F13M22.15 - Arabidopsis thaliana gi|3236247|gb|AAC23635.1| (AC004684) putative SCARECROW gene regulator [Arabidopsis thaliana]		

Seq. No.	54648	Seq. ID	OJ000322_17.0419.C15
Gene No.	114598	Strand	+
Start	1	End	2564
Name	OJ000322_17.0419.C15.o2.ts	Method	TBLASTX:Soybean

Start	4	End	417
GI	none	Score	218
Exons	4..417		

Seq. No.	54648	Seq. ID	OJ000322_17.0419.C15
Gene No.	114598	Strand	+
Start	1	End	2564
Name	OJ000322_17.0419.C15.o2.tm	Method	TBLASTX:Maize
Start	67	End	407
GI	none	Score	311
Exons	67..294, 70..252, 72..293, 295..396, 298..399, 300..407		

Seq. No.	54648	Seq. ID	OJ000322_17.0419.C15
Gene No.	114598	Strand	+
Start	1	End	2564
Name	OJ000322_17.0419.C15.o1.tc	Method	TBLASTX:Cress
Start	136	End	921
GI	none	Score	233
Exons	136..387, 373..525, 381..506, 580..648, 598..654, 655..921		

Seq. No.	54648	Seq. ID	OJ000322_17.0419.C15
Gene No.	114598	Strand	+
Start	1	End	2564
Name	OJ000322_17.0419.C15.o1.gs	Method	GENSCAN
Start	175	End	1125
GI	none	Score	.5
Exons	175..1125		

Seq. No.	54648	Seq. ID	OJ000322_17.0419.C15
Gene No.	114598	Strand	+
Start	1	End	2564
Name	OJ000322_17.0419.C15.o1.tm	Method	TBLASTX:Maize
Start	408	End	2556
GI	none	Score	161
Exons	408..527, 409..534, 574..654, 601..654, 655..1116, 655..771, 681..983, 1053..1118, 1367..1429, 1368..1430, 1813..1851, 1814..1858, 2432..2545, 2436..2546, 2440..2556		

Seq. No.	54648	Seq. ID	OJ000322_17.0419.C15
Gene No.	114598	Strand	+
Start	1	End	2564
Name	OJ000322_17.0419.C15.o1.ts	Method	TBLASTX:Soybean
Start	427	End	2564
GI	none	Score	100
Exons	427..525, 430..516, 652..1110, 792..983, 1814..1882, 1816..1854, 2420..2527, 2421..2564		

Seq. No.	54648	Seq. ID	OJ000322_17.0419.C15
Gene No.	114598	Strand	+
Start	1	End	2564
Name	OJ000322_17.0419.C15.o2.np	Method	AAT/NAP
Start	730	End	1128
GI	4580525	Score	409
Exons	730..1128		
GI Descrip.	(AF036306) scarecrow-like 9 [Arabidopsis thaliana]		

Seq. No.	54648	Seq. ID	OJ000322_17.0419.C15

Gene No.	114598	Strand	+
Start	1	End	2564
Name	OJ000322_17.0419.C15.o1.tw	Method	TBLASTX:Wheat
Start	867	End	2543
GI	none	Score	175
Exons	867..977, 871..1017, 1024..1116, 1062..1118, 1814..1882, 2441..2539, 2442..2543		

Seq. No.	54648	Seq. ID	OJ000322_17.0419.C15
Gene No.	114598	Strand	+
Start	1	End	2564
Name	OJ000322_17.0419.C15.o2.tc	Method	TBLASTX:Cress
Start	925	End	2534
GI	none	Score	191
Exons	925..1110, 1814..1882, 2420..2527, 2433..2534		

Seq. No.	54648	Seq. ID	OJ000322_17.0419.C15
Gene No.	114598	Strand	+
Start	1	End	2564
Name	OJ000322_17.0419.C15.o1.gp	Method	AAT/GAP
Start	982	End	1302
GI	LIB3433-022-P1-K1-C11	Score	604
Exons	982..1302		
GI Descrip.	'576771/gb|U16256|OSU16256 0.0e+00 Oryza sativa cone SR1 sucrose-regulated mRNA, 3''-end sequence'		

Seq. No.	54649	Seq. ID	OJ000322_17.0419.C16
Gene No.	114599	Strand	+
Start	1	End	761
Name	OJ000322_17.0419.C16.o1.np	Method	AAT/NAP
Start	1	End	737
GI	7487873	Score	563
Exons	1..737		
GI Descrip.	hypothetical protein T9I4.14 - Arabidopsis thaliana gi|3461846|gb|AAC33232.1| (AC005315) putative SCARECROW gene regulator [Arabidopsis thaliana]		

Seq. No.	54649	Seq. ID	OJ000322_17.0419.C16
Gene No.	114599	Strand	+
Start	1	End	761
Name	OJ000322_17.0419.C16.o1.gs	Method	GENSCAN
Start	75	End	761
GI	none	Score	.94
Exons	75..761		

Seq. No.	54649	Seq. ID	OJ000322_17.0419.C16
Gene No.	114600	Strand	-
Start	414	End	744
Name	OJ000322_17.0419.C16.o1.tm	Method	TBLASTX:Maize
Start	45	End	731
GI	none	Score	230
Exons	45..275, 48..275, 276..368, 278..370, 282..371, 360..647, 366..731, 380..730		

Seq. No.	54649	Seq. ID	OJ000322_17.0419.C16
Gene No.	114600	Strand	-
Start	414	End	744

Name	OJ000322_17.0419.C16.o1.ts	Method	TBLASTX:Soybean
Start	54	End	734
GI	none	Score	80
Exons	54..149, 150..275, 267..368, 278..370, 362..733, 366..734		

Seq. No.	54649	Seq. ID	OJ000322_17.0419.C16
Gene No.	114600	Strand	-
Start	414	End	744
Name	OJ000322_17.0419.C16.o1.tc	Method	TBLASTX:Cress
Start	276	End	734
GI	none	Score	81
Exons	276..368, 366..734, 386..595		

Seq. No.	54649	Seq. ID	OJ000322_17.0419.C16
Gene No.	114600	Strand	-
Start	414	End	744
Name	OJ000322_17.0419.C16.o1.gp	Method	AAT/GAP
Start	414	End	744
GI	uC-osf1M202039c07b1	Score	586
Exons	414..744		
GI Descrip.	'3461846 2.0e-26 (AC005315) putative zinc-finger protein [Arabidopsis thaliana]'		

Seq. No.	54650	Seq. ID	OJ000322_17.0419.C17
Gene No.	114601	Strand	+
Start	1	End	254
Name	OJ000322_17.0419.C17.o1.np	Method	AAT/NAP
Start	1	End	254
GI	4580531	Score	90
Exons	1..254		
GI Descrip.	(AF036309) scarecrow-like 14 [Arabidopsis thaliana]		

Seq. No.	54650	Seq. ID	OJ000322_17.0419.C17
Gene No.	114602	Strand	+
Start	652	End	1210
Name	OJ000322_17.0419.C17.o1.gs	Method	GENSCAN
Start	652	End	1210
GI	none	Score	.95
Exons	652..1210		

Seq. No.	54651	Seq. ID	OJ000322_17.0419.C18
Gene No.	114603	Strand	+
Start	1	End	2095
Name	OJ000322_17.0419.C18.o1.np	Method	AAT/NAP
Start	1	End	1047
GI	7487873	Score	689
Exons	1..1047		
GI Descrip.	hypothetical protein T9I4.14 - Arabidopsis thaliana gi|3461846|gb|AAC33232.1| (AC005315) putative SCARECROW gene regulator [Arabidopsis thaliana]		

Seq. No.	54651	Seq. ID	OJ000322_17.0419.C18
Gene No.	114603	Strand	+
Start	1	End	2095
Name	OJ000322_17.0419.C18.o1.gs	Method	GENSCAN
Start	124	End	2095
GI	none	Score	.76

Exons	124..1038, 1995..2095		
Seq. No.	54651	Seq. ID	OJ000322_17.0419.C18
Gene No.	114604	Strand	-
Start	724	End	1054
Name	OJ000322_17.0419.C18.o1.tc	Method	TBLASTX:Cress
Start	121	End	849
GI	none	Score	142
Exons	121..324, 162..287, 298..417, 676..849	310..462, 463..585, 586..678,	
Seq. No.	54651	Seq. ID	OJ000322_17.0419.C18
Gene No.	114604	Strand	-
Start	724	End	1054
Name	OJ000322_17.0419.C18.o1.tm	Method	TBLASTX:Maize
Start	136	End	1038
GI	none	Score	275
Exons	136..465, 151..456, 462..599, 670..876, 672..1037, 676..1038	463..594, 586..678, 592..681,	
Seq. No.	54651	Seq. ID	OJ000322_17.0419.C18
Gene No.	114604	Strand	-
Start	724	End	1054
Name	OJ000322_17.0419.C18.o1.ts	Method	TBLASTX:Soybean
Start	364	End	1038
GI	none	Score	84
Exons	364..462, 463..585, 577..711,	588..680, 672..1034, 676..1038	
Seq. No.	54651	Seq. ID	OJ000322_17.0419.C18
Gene No.	114604	Strand	-
Start	724	End	1054
Name	OJ000322_17.0419.C18.o1.gp	Method	AAT/GAP
Start	724	End	1054
GI	uC-osflM202039c07b1	Score	634
Exons	724..1054		
GI Descrip.	'3461846 2.0e-26 (AC005315) putative zinc-finger protein [Arabidopsis thaliana]'		
Seq. No.	54652	Seq. ID	OJ000322_17.0419.C19
Gene No.	114605	Strand	-
Start	194	End	6863
Name	OJ000322_17.0419.C19.o1.np	Method	AAT/NAP
Start	194	End	638
GI	6478923	Score	242
Exons	194..237, 328..393, 498..638		
GI Descrip.	(AC011436) putative alpha-hemolysin [Arabidopsis thaliana]		
Seq. No.	54652	Seq. ID	OJ000322_17.0419.C19
Gene No.	114605	Strand	-
Start	194	End	6863
Name	OJ000322_17.0419.C19.o1.gp	Method	AAT/GAP
Start	324	End	553
GI	553_2.R1084	Score	174
Exons	324..393, 498..553		
GI Descrip.	'576771/gb|U16256|OSU16256 0.0e+00 Oryza sativa cone SR1 sucrose-regulated mRNA, 3''-end sequence'		

Seq. No.	54652	Seq. ID	OJ000322_17.0419.C19
Gene No.	114605	Strand	-
Start	194	End	6863
Name	OJ000322_17.0419.C19.o1.gs	Method	GENSCAN
Start	361	End	5364
GI	none	Score	.56
Exons	361..393, 543..712, 1377..1447, 2272..2372, 3233..3438, 4146..4278, 4409..4560, 4715..4983, 5224..5364		

Seq. No.	54652	Seq. ID	OJ000322_17.0419.C19
Gene No.	114605	Strand	-
Start	194	End	6863
Name	OJ000322_17.0419.C19.o1.tm	Method	TBLASTX:Maize
Start	362	End	866
GI	none	Score	43
Exons	362..394, 363..395, 491..637, 495..641, 496..636, 734..814, 753..866, 757..816		

Seq. No.	54652	Seq. ID	OJ000322_17.0419.C19
Gene No.	114605	Strand	-
Start	194	End	6863
Name	OJ000322_17.0419.C19.o2.np	Method	AAT/NAP
Start	2221	End	6863
GI	81286	Score	118
Exons	2221..2319, 3117..3222, 3628..3673, 4197..4339, 4409..4648, 6810..6863		
GI Descrip.	extensin - Volvox carteri (fragment) gi|21992|emb|CAA46283| (X65165) extensin [Volvox carteri]		

Seq. No.	54653	Seq. ID	OJ000322_17.0419.C20
Gene No.	114606	Strand	-
Start	69	End	209
Name	OJ000322_17.0419.C20.o1.gs	Method	GENSCAN
Start	69	End	209
GI	none	Score	.87
Exons	69..209		

Seq. No.	54653	Seq. ID	OJ000322_17.0419.C20
Gene No.	114607	Strand	-
Start	579	End	970
Name	OJ000322_17.0419.C20.o1.np	Method	AAT/NAP
Start	579	End	970
GI	7106528	Score	70
Exons	579..711, 922..970		
GI Descrip.	(AP001278) EST D40774(S2920) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	54654	Seq. ID	OJ000322_17.0419.C24
Gene No.	114608	Strand	-
Start	2728	End	3973
Name	OJ000322_17.0419.C24.o1.np	Method	AAT/NAP
Start	2585	End	3973
GI	7340688	Score	810
Exons	2585..3416, 3925..3973		
GI Descrip.	(AL162508) thaumatin-like protein [Arabidopsis thaliana]		

Seq. No.	54654	Seq. ID	OJ000322_17.0419.C24

Gene No.	114608	Strand	-
Start	2728	End	3973
Name	OJ000322_17.0419.C24.o1.tc	Method	TBLASTX:Cress
Start	2608	End	3399
GI	none	Score	64
Exons	2608..2664, 2743..2952, 2744..2950, 2950..3120, 3053..3100, 3121..3399, 3122..3370		

Seq. No.	54654	Seq. ID	OJ000322_17.0419.C24
Gene No.	114608	Strand	-
Start	2728	End	3973
Name	OJ000322_17.0419.C24.o2.gs	Method	GENSCAN
Start	2728	End	3635
GI	none	Score	.87
Exons	2728..3431, 3515..3635		

Seq. No.	54654	Seq. ID	OJ000322_17.0419.C24
Gene No.	114608	Strand	-
Start	2728	End	3973
Name	OJ000322_17.0419.C24.o2.tw	Method	TBLASTX:Wheat
Start	2731	End	2956
GI	none	Score	71
Exons	2731..2802, 2776..2955, 2792..2956		

Seq. No.	54654	Seq. ID	OJ000322_17.0419.C24
Gene No.	114608	Strand	-
Start	2728	End	3973
Name	OJ000322_17.0419.C24.o1.ts	Method	TBLASTX:Soybean
Start	2734	End	3399
GI	none	Score	73
Exons	2734..2952, 2735..2950, 2950..3120, 3053..3100, 3119..3370, 3121..3399		

Seq. No.	54654	Seq. ID	OJ000322_17.0419.C24
Gene No.	114608	Strand	-
Start	2728	End	3973
Name	OJ000322_17.0419.C24.o1.tm	Method	TBLASTX:Maize
Start	2770	End	3304
GI	none	Score	95
Exons	2770..2868, 2878..2940, 3055..3105, 3166..3264, 3167..3259, 3251..3304		

Seq. No.	54654	Seq. ID	OJ000322_17.0419.C24
Gene No.	114608	Strand	-
Start	2728	End	3973
Name	OJ000322_17.0419.C24.o1.tw	Method	TBLASTX:Wheat
Start	2968	End	3276
GI	none	Score	43
Exons	2968..3003, 3055..3165, 3062..3100, 3119..3187, 3172..3276, 3179..3262		

Seq. No.	54655	Seq. ID	OJ000322_17.0419.C25
Gene No.	114609	Strand	-
Start	259	End	456
Name	OJ000322_17.0419.C25.o1.gs	Method	GENSCAN
Start	259	End	456
GI	none	Score	.79

Exons	259..456		
Seq. No.	54656	Seq. ID	OJ000322_17.0419.C27
Gene No.	114610	Strand	+
Start	1	End	6596
Name	OJ000322_17.0419.C27.o1.np	Method	AAT/NAP
Start	1	End	6596
GI	7485429	Score	627
Exons	1..102, 5818..6596		
GI Descrip.	hypothetical protein F13M22.15 - Arabidopsis thaliana gi|3236247|gb|AAC23635.1| (AC004684) putative SCARECROW gene regulator [Arabidopsis thaliana]		

Seq. No.	54656	Seq. ID	OJ000322_17.0419.C27
Gene No.	114610	Strand	+
Start	1	End	6596
Name	OJ000322_17.0419.C27.o1.gs	Method	GENSCAN
Start	853	End	6575
GI	none	Score	.42
Exons	853..927, 2338..2596, 3395..3454, 3527..3829, 3957..4105, 5002..6575		

Seq. No.	54656	Seq. ID	OJ000322_17.0419.C27
Gene No.	114610	Strand	+
Start	1	End	6596
Name	OJ000322_17.0419.C27.o1.ts	Method	TBLASTX:Soybean
Start	5839	End	6429
GI	none	Score	279
Exons	5839..6429, 6168..6281		

Seq. No.	54656	Seq. ID	OJ000322_17.0419.C27
Gene No.	114610	Strand	+
Start	1	End	6596
Name	OJ000322_17.0419.C27.o1.tm	Method	TBLASTX:Maize
Start	5925	End	6366
GI	none	Score	92
Exons	5925..6134, 5926..6153, 5931..6152, 6154..6255, 6157..6258, 6159..6266, 6186..6287, 6237..6365, 6240..6365, 6241..6366, 6259..6366		

Seq. No.	54656	Seq. ID	OJ000322_17.0419.C27
Gene No.	114610	Strand	+
Start	1	End	6596
Name	OJ000322_17.0419.C27.o1.tc	Method	TBLASTX:Cress
Start	5995	End	6423
GI	none	Score	220
Exons	5995..6246, 6219..6329, 6232..6423, 6244..6414		

Seq. No.	54657	Seq. ID	OJ000322_17.0419.C30
Gene No.	114611	Strand	-
Start	1	End	1672
Name	OJ000322_17.0419.C30.o1.np	Method	AAT/NAP
Start	1	End	1672
GI	6434201	Score	95
Exons	1..21, 370..480, 627..728, 829..891, 1621..1672		
GI Descrip.	(AJ002590) CycD3;3 [Lycopersicon esculentum]		

Seq. No.	54657	Seq. ID	OJ000322_17.0419.C30
Gene No.	114611	Strand	-
Start	1	End	1672
Name	OJ000322_17.0419.C30.o1.gs	Method	GENSCAN
Start	193	End	1435
GI	none	Score	.95
Exons	193..486, 630..728, 1136..1435		

Seq. No.	54658	Seq. ID	OJ000322_17.0419.C32
Gene No.	114612	Strand	+
Start	5494	End	5670
Name	OJ000322_17.0419.C32.o2.gs	Method	GENSCAN
Start	5494	End	5670
GI	none	Score	.51
Exons	5494..5670		

Seq. No.	54658	Seq. ID	OJ000322_17.0419.C32
Gene No.	114613	Strand	-
Start	1024	End	4261
Name	OJ000322_17.0419.C32.o1.np	Method	AAT/NAP
Start	1024	End	3572
GI	6907086	Score	1020
Exons	1024..1394, 1434..1552, 1768..1929, 1990..2616, 3442..3572		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	54658	Seq. ID	OJ000322_17.0419.C32
Gene No.	114613	Strand	-
Start	1024	End	4261
Name	OJ000322_17.0419.C32.o2.np	Method	AAT/NAP
Start	3240	End	4261
GI	4680186	Score	177
Exons	3240..3658, 4190..4261		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	54658	Seq. ID	OJ000322_17.0419.C32
Gene No.	114614	Strand	-
Start	6296	End	9490
Name	OJ000322_17.0419.C32.o1.gp	Method	AAT/GAP
Start	6124	End	9234
GI	1027_1.R1084	Score	3328
Exons	6124..6414, 7019..7103, 7449..7730, 7823..8295, 8381..8572, 8686..8984, 9084..9234		
GI Descrip.	'3914603/sp|P93431|RCA_ORYSA 0.0e+00 RIBULOSE BISPHOSPHATE CARBOXYLASE/OXYGENASE ACTIVASE, CHLOROPLAST PRECURSOR (RUBISCO ACTIVASE) >gi_1778414 (U74321) ribulose-1,5-bisphosphate carboxylase/oxygenase activase [Oryza sativa]'		

Seq. No.	54658	Seq. ID	OJ000322_17.0419.C32
Gene No.	114614	Strand	-
Start	6296	End	9490
Name	OJ000322_17.0419.C32.o3.gs	Method	GENSCAN
Start	6296	End	9490
GI	none	Score	.73
Exons	6296..6414, 7449..7730, 7823..8295, 8381..8572, 8686..8984, 9272..9395, 9465..9490		

Seq. No.	54658	Seq. ID	OJ000322_17.0419.C32

Gene No.	114614	Strand	-
Start	6296	End	9490
Name	OJ000322_17.0419.C32.o3.np	Method	AAT/NAP
Start	7427	End	9119
GI	3914603	Score	2085
Exons	7427..7730, 7823..8295, 8381..8572, 8686..8984, 9084..9119		
GI Descrip.	RIBULOSE BISPHOSPHATE CARBOXYLASE/OXYGENASE ACTIVASE, CHLOROPLAST PRECURSOR (RUBISCO ACTIVASE) gi|1778414 (U74321) ribulose-1,5-bisphosphate carboxylase/oxygenase activase [Oryza sativa]		

Seq. No.	54658	Seq. ID	OJ000322_17.0419.C32
Gene No.	114615	Strand	-
Start	11178	End	11542
Name	OJ000322_17.0419.C32.o2.tw	Method	TBLASTX:Wheat
Start	6169	End	11541
GI	none	Score	53
Exons	6169..6234, 6273..6386, 6275..6394, 6294..6401, 6399..6422, 7442..7690, 7444..7731, 7445..7732, 7824..7847, 7824..7847, 11179..11292, 11184..11291, 11304..11399, 11334..11402, 11404..11454, 11405..11446, 11460..11540, 11461..11541		

Seq. No.	54658	Seq. ID	OJ000322_17.0419.C32
Gene No.	114615	Strand	-
Start	11178	End	11542
Name	OJ000322_17.0419.C32.o1.tc	Method	TBLASTX:Cress
Start	6293	End	11541
GI	none	Score	118
Exons	6293..6391, 6300..6389, 7447..7731, 7448..7732, 7824..8297, 7825..8298, 8376..8468, 8380..8571, 8381..8572, 8381..8530, 8383..8574, 8673..8864, 8683..8838, 8747..8860, 11179..11292, 11181..11291, 11304..11399, 11322..11399, 11404..11445, 11405..11452, 11460..11540, 11461..11541		

Seq. No.	54658	Seq. ID	OJ000322_17.0419.C32
Gene No.	114615	Strand	-
Start	11178	End	11542
Name	OJ000322_17.0419.C32.o1.ts	Method	TBLASTX:Soybean
Start	6302	End	11541
GI	none	Score	106
Exons	6302..6391, 6309..6386, 7447..7731, 7448..7732, 7824..7877, 7825..7881, 7875..7979, 7876..7980, 7900..7980, 7980..8297, 7981..8298, 8133..8303, 8381..8575, 8381..8530, 8383..8565, 8676..8786, 8683..8787, 8746..8838, 8775..8876, 11184..11303, 11191..11304, 11304..11399, 11374..11397, 11404..11445, 11460..11540, 11461..11541		

Seq. No.	54658	Seq. ID	OJ000322_17.0419.C32
Gene No.	114615	Strand	-
Start	11178	End	11542
Name	OJ000322_17.0419.C32.o1.tm	Method	TBLASTX:Maize
Start	7442	End	11541
GI	none	Score	331
Exons	7442..7690, 7450..7731, 7454..7732, 7824..8297, 7825..8298, 8381..8566, 8383..8571, 8383..8571, 8668..8838, 8682..8789, 8682..8909, 8695..8838, 8738..8869, 8844..8978, 8929..8973, 9066..9107, 9083..9106, 11304..11399, 11334..11399,		

11374..11400, 11404..11445, 11405..11449, 11406..11459, 11460..11540, 11461..11541

Seq. No.	54658	Seq. ID	OJ000322_17.0419.C32
Gene No.	114615	Strand	-
Start	11178	End	11542
Name	OJ000322_17.0419.C32.o1.tw	Method	TBLASTX:Wheat
Start	7848	End	8181
GI	none	Score	453
Exons	7848..8177, 7849..8181		

Seq. No.	54658	Seq. ID	OJ000322_17.0419.C32
Gene No.	114615	Strand	-
Start	11178	End	11542
Name	OJ000322_17.0419.C32.o4.gs	Method	GENSCAN
Start	11178	End	11396
GI	none	Score	1
Exons	11178..11396		

Seq. No.	54658	Seq. ID	OJ000322_17.0419.C32
Gene No.	114615	Strand	-
Start	11178	End	11542
Name	OJ000322_17.0419.C32.o4.np	Method	AAT/NAP
Start	11178	End	11542
GI	100614	Score	391
Exons	11178..11542		
GI Descrip.	ribulose-bisphosphate carboxylase activase (EC 6.3.4.-) A long form precursor - barley (fragment) gi|167089|gb|AAA62701.1| (M55446) ribulose 1,5-bisphosphate carboxylase activase [Hordeum vulgare]		

Seq. No.	54659	Seq. ID	OJ000322_17.0419.C33
Gene No.	114616	Strand	-
Start	1	End	1241
Name	OJ000322_17.0419.C33.o1.np	Method	AAT/NAP
Start	1	End	1241
GI	3914603	Score	412
Exons	1..119, 191..294, 341..671, 1183..1241		
GI Descrip.	RIBULOSE BISPHOSPHATE CARBOXYLASE/OXYGENASE ACTIVASE, CHLOROPLAST PRECURSOR (RUBISCO ACTIVASE) gi|1778414 (U74321) ribulose-1,5-bisphosphate carboxylase/oxygenase activase [Oryza sativa]		

Seq. No.	54659	Seq. ID	OJ000322_17.0419.C33
Gene No.	114616	Strand	-
Start	1	End	1241
Name	OJ000322_17.0419.C33.o1.tc	Method	TBLASTX:Cress
Start	2	End	559
GI	none	Score	116
Exons	2..139, 3..104, 191..238, 193..240, 220..279, 238..276, 276..302, 278..301, 385..417, 386..415, 416..559, 426..527		

Seq. No.	54659	Seq. ID	OJ000322_17.0419.C33
Gene No.	114616	Strand	-
Start	1	End	1241
Name	OJ000322_17.0419.C33.o1.tm	Method	TBLASTX:Maize
Start	2	End	571

GI	none	Score	100
Exons	2..139, 5..103, 191..247, 193..240, 238..276, 238..276, 390..527, 416..571, 417..527, 421..546		

Seq. No.	54659	Seq. ID	OJ000322_17.0419.C33
Gene No.	114616	Strand	-
Start	1	End	1241
Name	OJ000322_17.0419.C33.o1.gs	Method	GENSCAN
Start	33	End	589
GI	none	Score	.79
Exons	33..119, 191..300, 389..589		

Seq. No.	54659	Seq. ID	OJ000322_17.0419.C33
Gene No.	114616	Strand	-
Start	1	End	1241
Name	OJ000322_17.0419.C33.o1.ts	Method	TBLASTX:Soybean
Start	220	End	565
GI	none	Score	60
Exons	220..276, 237..275, 238..279, 278..298, 382..417, 410..466, 416..565, 426..527		

Seq. No.	54660	Seq. ID	OJ000322_17.0419.C34
Gene No.	114617	Strand	+
Start	9702	End	10987
Name	OJ000322_17.0419.C34.o3.gp	Method	AAT/GAP
Start	9227	End	9418
GI	5667165	Score	368
Exons	9227..9418		
GI Descrip.	5670155/gb|AF161269.1|AF161269 4.0e-86 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence		

Seq. No.	54660	Seq. ID	OJ000322_17.0419.C34
Gene No.	114617	Strand	+
Start	9702	End	10987
Name	OJ000322_17.0419.C34.o2.np	Method	AAT/NAP
Start	9502	End	10987
GI	6907086	Score	1278
Exons	9502..10283, 10343..10590, 10813..10987		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	54660	Seq. ID	OJ000322_17.0419.C34
Gene No.	114617	Strand	+
Start	9702	End	10987
Name	OJ000322_17.0419.C34.o2.gs	Method	GENSCAN
Start	9702	End	10289
GI	none	Score	1
Exons	9702..10289		

Seq. No.	54660	Seq. ID	OJ000322_17.0419.C34
Gene No.	114618	Strand	-
Start	483	End	7142
Name	OJ000322_17.0419.C34.o2.tm	Method	TBLASTX:Maize
Start	482	End	2124
GI	none	Score	154
Exons	482..613, 816..980, 817..981, 822..995, 1833..1934, 1842..1901, 1843..1944, 2007..2048, 2089..2124		

Seq. No.	54660	Seq. ID	OJ000322_17.0419.C34
Gene No.	114618	Strand	-
Start	483	End	7142
Name	OJ000322_17.0419.C34.o1.gs	Method	GENSCAN
Start	483	End	6786
GI	none	Score	.7
Exons	483..604, 696..786, 817..925, 1855..1932, 3705..3756, 4307..4470, 4915..5078, 6500..6786		

Seq. No.	54660	Seq. ID	OJ000322_17.0419.C34
Gene No.	114618	Strand	-
Start	483	End	7142
Name	OJ000322_17.0419.C34.o1.gp	Method	AAT/GAP
Start	897	End	2417
GI	LIB3477-011-P1-K1-C6	Score	673
Exons	897..981, 1855..1932, 2008..2160, 2356..2417		
GI Descrip.	'5670155/gb|AF161269.1|AF161269 4.0e-86 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence'		

Seq. No.	54660	Seq. ID	OJ000322_17.0419.C34
Gene No.	114618	Strand	-
Start	483	End	7142
Name	OJ000322_17.0419.C34.o1.ts	Method	TBLASTX:Soybean
Start	3714	End	6675
GI	none	Score	102
Exons	3714..3827, 3727..3861, 3930..3977, 3931..3981, 4017..4196, 4045..4191, 4287..4472, 4295..4471, 4907..5086, 4911..5072, 4916..5083, 4917..5087, 6499..6582, 6500..6583, 6580..6675, 6581..6673		

Seq. No.	54660	Seq. ID	OJ000322_17.0419.C34
Gene No.	114618	Strand	-
Start	483	End	7142
Name	OJ000322_17.0419.C34.o1.np	Method	AAT/NAP
Start	3720	End	7142
GI	7546703	Score	881
Exons	3720..3831, 3934..4193, 4307..4470, 4915..5078, 6500..6746, 7058..7142		
GI Descrip.	(AL163652) membrane protein [Arabidopsis thaliana]		

Seq. No.	54660	Seq. ID	OJ000322_17.0419.C34
Gene No.	114618	Strand	-
Start	483	End	7142
Name	OJ000322_17.0419.C34.o1.tm	Method	TBLASTX:Maize
Start	3723	End	6681
GI	none	Score	96
Exons	3723..3830, 3727..3846, 3927..4196, 3928..3993, 4042..4191, 4292..4435, 4307..4396, 4326..4397, 4397..4471, 4907..5086, 4916..5068, 4917..5081, 6499..6582, 6500..6583, 6583..6681		

Seq. No.	54660	Seq. ID	OJ000322_17.0419.C34
Gene No.	114618	Strand	-
Start	483	End	7142
Name	OJ000322_17.0419.C34.o1.tw	Method	TBLASTX:Wheat
Start	3931	End	4397
GI	none	Score	55
Exons	3931..3993, 3933..3992, 3996..4196, 4044..4169, 4051..4194,		

4292..4396, 4293..4397, 4305..4397

Seq. No.	54660	Seq. ID	OJ000322_17.0419.C34
Gene No.	114618	Strand	-
Start	483	End	7142
Name	OJ000322_17.0419.C34.o1.tc	Method	TBLASTX:Cress
Start	4044	End	6675
GI	none	Score	55
Exons	4044..4073, 4057..4119, 4102..4191, 4110..4196, 4271..4444, 4287..4469, 4292..4471, 4901..5086, 4911..5081, 6499..6579, 6500..6580, 6580..6675		

Seq. No.	54660	Seq. ID	OJ000322_17.0419.C34
Gene No.	114618	Strand	-
Start	483	End	7142
Name	OJ000322_17.0419.C34.o2.tw	Method	TBLASTX:Wheat
Start	6496	End	6681
GI	none	Score	106
Exons	6496..6582, 6500..6583, 6583..6681		

Seq. No.	54660	Seq. ID	OJ000322_17.0419.C34
Gene No.	114618	Strand	-
Start	483	End	7142
Name	OJ000322_17.0419.C34.o2.gp	Method	AAT/GAP
Start	6664	End	6898
GI	572222	Score	429
Exons	6664..6898		

Seq. No.	54661	Seq. ID	OJ000322_17.0419.C35
Gene No.	114619	Strand	-
Start	817	End	2905
Name	OJ000322_17.0419.C35.o1.np	Method	AAT/NAP
Start	817	End	2905
GI	7339707	Score	61
Exons	817..834, 2364..2469, 2885..2905		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	54662	Seq. ID	OJ000322_17.0419.C36
Gene No.	114620	Strand	+
Start	20	End	2201
Name	OJ000322_17.0419.C36.o1.gs	Method	GENSCAN
Start	20	End	2201
GI	none	Score	.66
Exons	20..161, 178..326, 1606..1779, 2184..2201		

Seq. No.	54662	Seq. ID	OJ000322_17.0419.C36
Gene No.	114621	Strand	+
Start	4182	End	7370
Name	OJ000322_17.0419.C36.o1.np	Method	AAT/NAP
Start	4182	End	7355
GI	7485429	Score	1075
Exons	4182..4203, 6109..7355		
GI Descrip.	hypothetical protein F13M22.15 - Arabidopsis thaliana gi|3236247|gb|AAC23635.1| (AC004684) putative SCARECROW gene regulator [Arabidopsis thaliana]		

Seq. No.	54662	Seq. ID	OJ000322_17.0419.C36

Gene No.	114621	Strand	+
Start	4182	End	7370
Name	OJ000322_17.0419.C36.o2.gs	Method	GENSCAN
Start	5292	End	7370
GI	none	Score	.96
Exons	5292..7370		

Seq. No.	54662	Seq. ID	OJ000322_17.0419.C36
Gene No.	114621	Strand	+
Start	4182	End	7370
Name	OJ000322_17.0419.C36.o2.tm	Method	TBLASTX:Maize
Start	6189	End	6407
GI	none	Score	260
Exons	6189..6407, 6203..6403		

Seq. No.	54662	Seq. ID	OJ000322_17.0419.C36
Gene No.	114621	Strand	+
Start	4182	End	7370
Name	OJ000322_17.0419.C36.o2.ts	Method	TBLASTX:Soybean
Start	6195	End	6632
GI	none	Score	233
Exons	6195..6632		

Seq. No.	54662	Seq. ID	OJ000322_17.0419.C36
Gene No.	114621	Strand	+
Start	4182	End	7370
Name	OJ000322_17.0419.C36.o1.tc	Method	TBLASTX:Cress
Start	6351	End	7151
GI	none	Score	212
Exons	6351..6587, 6590..6685, 6591..6779, 6882..7151		

Seq. No.	54662	Seq. ID	OJ000322_17.0419.C36
Gene No.	114621	Strand	+
Start	4182	End	7370
Name	OJ000322_17.0419.C36.o1.tm	Method	TBLASTX:Maize
Start	6413	End	7337
GI	none	Score	381
Exons	6413..6748, 6414..6785, 6414..6758, 6813..6890, 6882..7337, 7097..7204, 7289..7336		

Seq. No.	54662	Seq. ID	OJ000322_17.0419.C36
Gene No.	114621	Strand	+
Start	4182	End	7370
Name	OJ000322_17.0419.C36.o1.ts	Method	TBLASTX:Soybean
Start	6642	End	7345
GI	none	Score	163
Exons	6642..6785, 6644..6748, 6867..6971, 6870..7337, 6932..7021, 7097..7210, 7283..7345		

Seq. No.	54662	Seq. ID	OJ000322_17.0419.C36
Gene No.	114621	Strand	+
Start	4182	End	7370
Name	OJ000322_17.0419.C36.o2.tc	Method	TBLASTX:Cress
Start	6819	End	7337
GI	none	Score	62
Exons	6819..6881, 7152..7337		

Seq. No.	54662	Seq. ID	OJ000322_17.0419.C36
Gene No.	114621	Strand	+
Start	4182	End	7370
Name	OJ000322_17.0419.C36.o1.tw	Method	TBLASTX:Wheat
Start	7097	End	7346
GI	none	Score	170
Exons	7097..7204, 7098..7244, 7119..7223, 7245..7346, 7289..7342, 7296..7346		

Seq. No.	54663	Seq. ID	OJ000322_17.0419.C37
Gene No.	114622	Strand	+
Start	446	End	2560
Name	OJ000322_17.0419.C37.o1.gs	Method	GENSCAN
Start	446	End	2289
GI	none	Score	.52
Exons	446..603, 779..970, 1776..1988, 2002..2289		

Seq. No.	54663	Seq. ID	OJ000322_17.0419.C37
Gene No.	114622	Strand	+
Start	446	End	2560
Name	OJ000322_17.0419.C37.o1.np	Method	AAT/NAP
Start	1553	End	2560
GI	6907086	Score	1096
Exons	1553..2306, 2365..2560		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	54664	Seq. ID	OJ000322_17.0419.C38
Gene No.	114623	Strand	+
Start	684	End	812
Name	OJ000322_17.0419.C38.o1.gs	Method	GENSCAN
Start	684	End	812
GI	none	Score	.77
Exons	684..812		

Seq. No.	54664	Seq. ID	OJ000322_17.0419.C38
Gene No.	114624	Strand	-
Start	245	End	585
Name	OJ000322_17.0419.C38.o1.gp	Method	AAT/GAP
Start	245	End	585
GI	576771	Score	535
Exons	245..346, 373..585		
GI Descrip.	576771/gb|U16256|OSU16256 0.0e+00 Oryza sativa cone SR1 sucrose-regulated mRNA, 3'-end sequence		

Seq. No.	54664	Seq. ID	OJ000322_17.0419.C38
Gene No.	114625	Strand	-
Start	938	End	1455
Name	OJ000322_17.0419.C38.o2.gs	Method	GENSCAN
Start	938	End	1455
GI	none	Score	.71
Exons	938..1020, 1261..1455		

Seq. No.	54665	Seq. ID	OJ000322_17.0419.C41
Gene No.	114626	Strand	+
Start	564	End	863
Name	OJ000322_17.0419.C41.o1.gp	Method	AAT/GAP
Start	564	End	863

GI	21240_1.R1084	Score	495
Exons	564..863		
GI Descrip.	'2398829/emb|CAA72107| 1.0e-117 (Y11220) mitochondrial uncoupling protein [Solanum tuberosum]'		

Seq. No.	54665	Seq. ID	OJ000322_17.0419.C41
Gene No.	114627	Strand	-
Start	327	End	808
Name	OJ000322_17.0419.C41.o1.gs	Method	GENSCAN
Start	327	End	808
GI	none	Score	.5
Exons	327..396, 631..808		

Seq. No.	54666	Seq. ID	OJ000322_17.0419.C42
Gene No.	114628	Strand	-
Start	1	End	132
Name	OJ000322_17.0419.C42.o1.gp	Method	AAT/GAP
Start	1	End	132
GI	50421_1.R1084	Score	264
Exons	1..132		
GI Descrip.	'2398829/emb|CAA72107| 9.0e-21 (Y11220) mitochondrial uncoupling protein [Solanum tuberosum]'		

Seq. No.	54666	Seq. ID	OJ000322_17.0419.C42
Gene No.	114629	Strand	-
Start	808	End	1147
Name	OJ000322_17.0419.C42.o1.gs	Method	GENSCAN
Start	808	End	1147
GI	none	Score	.63
Exons	808..931, 956..1147		

Seq. No.	54667	Seq. ID	OJ000322_17.0419.C43
Gene No.	114630	Strand	-
Start	24	End	1366
Name	OJ000322_17.0419.C43.o1.gs	Method	GENSCAN
Start	24	End	1366
GI	none	Score	.87
Exons	24..402, 790..867, 1351..1366		

Seq. No.	54667	Seq. ID	OJ000322_17.0419.C43
Gene No.	114630	Strand	-
Start	24	End	1366
Name	OJ000322_17.0419.C43.o1.gp	Method	AAT/GAP
Start	695	End	1185
GI	none	Score	970
Exons	695..1185		

Seq. No.	54668	Seq. ID	OJ000322_17.0419.C44
Gene No.	114631	Strand	-
Start	1	End	2197
Name	OJ000322_17.0419.C44.o1.gs	Method	GENSCAN
Start	1	End	2197
GI	none	Score	.94
Exons	1..96, 126..276, 2193..2197		

Seq. No.	54669	Seq. ID	OJ000322_17.0419.C45
Gene No.	114632	Strand	+

Start	1	End	1725
Name	OJ000322_17.0419.C45.o1.gp	Method	AAT/GAP
Start	1	End	527
GI	none	Score	1043
Exons	1..527		

Seq. No.	54669	Seq. ID	OJ000322_17.0419.C45
Gene No.	114632	Strand	+
Start	1	End	1725
Name	OJ000322_17.0419.C45.o1.gs	Method	GENSCAN
Start	380	End	1536
GI	none	Score	.96
Exons	380..487, 631..782, 1229..1320, 1405..1536		

Seq. No.	54669	Seq. ID	OJ000322_17.0419.C45
Gene No.	114632	Strand	+
Start	1	End	1725
Name	OJ000322_17.0419.C45.o1.np	Method	AAT/NAP
Start	404	End	1725
GI	7432990	Score	734
Exons	404..487, 631..782, 1076..1320, 1405..1530, 1662..1725		
GI Descrip.	laccase (EC 1.10.3.2) F16M14.1 - Arabidopsis thaliana gi|3335357|gb|AAC27158.1| (AC003028) putative diphenol oxidase [Arabidopsis thaliana]		

Seq. No.	54669	Seq. ID	OJ000322_17.0419.C45
Gene No.	114632	Strand	+
Start	1	End	1725
Name	OJ000322_17.0419.C45.o1.ts	Method	TBLASTX:Soybean
Start	630	End	1448
GI	none	Score	182
Exons	630..782, 631..777, 1023..1322, 1076..1321, 1129..1323, 1389..1448, 1403..1429		

Seq. No.	54669	Seq. ID	OJ000322_17.0419.C45
Gene No.	114632	Strand	+
Start	1	End	1725
Name	OJ000322_17.0419.C45.o2.tc	Method	TBLASTX:Cress
Start	630	End	786
GI	none	Score	196
Exons	630..782, 631..777, 637..786		

Seq. No.	54669	Seq. ID	OJ000322_17.0419.C45
Gene No.	114632	Strand	+
Start	1	End	1725
Name	OJ000322_17.0419.C45.o1.tc	Method	TBLASTX:Cress
Start	1038	End	1448
GI	none	Score	344
Exons	1038..1322, 1076..1321, 1116..1346, 1403..1447, 1404..1448		

Seq. No.	54669	Seq. ID	OJ000322_17.0419.C45
Gene No.	114632	Strand	+
Start	1	End	1725
Name	OJ000322_17.0419.C45.o1.tm	Method	TBLASTX:Maize
Start	1044	End	1319
GI	none	Score	342
Exons	1044..1319, 1076..1306		

Seq. No.	54669	Seq. ID	OJ000322_17.0419.C45
Gene No.	114632	Strand	+
Start	1	End	1725
Name	OJ000322_17.0419.C45.o1.tw	Method	TBLASTX:Wheat
Start	1077	End	1322
GI	none	Score	258
Exons	1077..1322, 1079..1147, 1131..1316, 1178..1321		

Seq. No.	54670	Seq. ID	OJ000322_17.0419.C47
Gene No.	114633	Strand	+
Start	1	End	844
Name	OJ000322_17.0419.C47.o1.gp	Method	AAT/GAP
Start	1	End	844
GI	11944_1.R1084	Score	1119
Exons	1..115, 202..282, 365..844		
GI Descrip.	'3980396 3.0e-25 (AC004561) putative C-4 sterol methyl oxidase [Arabidopsis thaliana]'		

Seq. No.	54670	Seq. ID	OJ000322_17.0419.C47
Gene No.	114633	Strand	+
Start	1	End	844
Name	OJ000322_17.0419.C47.o1.np	Method	AAT/NAP
Start	1	End	416
GI	3980396	Score	333
Exons	1..115, 202..282, 365..416		
GI Descrip.	(AC004561) putative C-4 sterol methyl oxidase [Arabidopsis thaliana]		

Seq. No.	54670	Seq. ID	OJ000322_17.0419.C47
Gene No.	114633	Strand	+
Start	1	End	844
Name	OJ000322_17.0419.C47.o1.gs	Method	GENSCAN
Start	202	End	434
GI	none	Score	.72
Exons	202..282, 365..434		

Seq. No.	54670	Seq. ID	OJ000322_17.0419.C47
Gene No.	114634	Strand	+
Start	1471	End	2050
Name	OJ000322_17.0419.C47.o2.np	Method	AAT/NAP
Start	1471	End	2050
GI	6063531	Score	350
Exons	1471..1842, 1938..2050		
GI Descrip.	(AP000615) ESTs AU078251(R0889),D24027(R0889) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	54670	Seq. ID	OJ000322_17.0419.C47
Gene No.	114635	Strand	-
Start	1	End	2258
Name	OJ000322_17.0419.C47.o3.np	Method	AAT/NAP
Start	1	End	2258
GI	4680199	Score	85
Exons	1..44, 1827..1947, 2020..2258		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	54670	Seq. ID	OJ000322_17.0419.C47
Gene No.	114635	Strand	-
Start	1	End	2258
Name	OJ000322_17.0419.C47.o1.tc	Method	TBLASTX:Cress
Start	3	End	413
GI	none	Score	198
Exons	3..116, 3..86, 11..115, 135..284, 203..283, 360..413		

Seq. No.	54670	Seq. ID	OJ000322_17.0419.C47
Gene No.	114635	Strand	-
Start	1	End	2258
Name	OJ000322_17.0419.C47.o1.tm	Method	TBLASTX:Maize
Start	3	End	518
GI	none	Score	220
Exons	3..116, 3..113, 5..115, 8..118, 19..120, 185..283, 201..284, 202..297, 203..283, 336..446, 360..518, 368..460		

Seq. No.	54670	Seq. ID	OJ000322_17.0419.C47
Gene No.	114635	Strand	-
Start	1	End	2258
Name	OJ000322_17.0419.C47.o1.ts	Method	TBLASTX:Soybean
Start	3	End	410
GI	none	Score	199
Exons	3..116, 3..113, 5..115, 200..283, 203..280, 213..284, 213..287, 336..410		

Seq. No.	54671	Seq. ID	OJ000302_10.0418.C6
Gene No.	114636	Strand	-
Start	794	End	1804
Name	OJ000302_10.0418.C6.o1.gp	Method	AAT/GAP
Start	353	End	809
GI	2280620	Score	574
Exons	353..575, 732..809		

Seq. No.	54671	Seq. ID	OJ000302_10.0418.C6
Gene No.	114636	Strand	-
Start	794	End	1804
Name	OJ000302_10.0418.C6.o1.gs	Method	GENSCAN
Start	794	End	1768
GI	none	Score	.99
Exons	794..1357, 1446..1517, 1622..1768		

Seq. No.	54671	Seq. ID	OJ000302_10.0418.C6
Gene No.	114636	Strand	-
Start	794	End	1804
Name	OJ000302_10.0418.C6.o1.np	Method	AAT/NAP
Start	1239	End	1795
GI	6553890	Score	206
Exons	1239..1357, 1446..1517, 1622..1795		
GI Descrip.	(AC012563) unknown protein [Arabidopsis thaliana]		

Seq. No.	54671	Seq. ID	OJ000302_10.0418.C6
Gene No.	114636	Strand	-
Start	794	End	1804
Name	OJ000302_10.0418.C6.o1.tc	Method	TBLASTX:Cress
Start	1425	End	1804
GI	none	Score	52

Exons	1425..1517, 1444..1518, 1608..1697, 1622..1804		
Seq. No.	54671	Seq. ID	OJ000302_10.0418.C6
Gene No.	114636	Strand	-
Start	794	End	1804
Name	OJ000302_10.0418.C6.o1.ts	Method	TBLASTX:Soybean
Start	1438	End	1774
GI	none	Score	46
Exons	1438..1518, 1449..1517, 1608..1697, 1622..1774		
Seq. No.	54671	Seq. ID	OJ000302_10.0418.C6
Gene No.	114636	Strand	-
Start	794	End	1804
Name	OJ000302_10.0418.C6.o1.tm	Method	TBLASTX:Maize
Start	1449	End	1774
GI	none	Score	48
Exons	1449..1517, 1456..1518, 1608..1697, 1622..1774		
Seq. No.	54672	Seq. ID	OJ000302_10.0418.C7
Gene No.	114637	Strand	-
Start	2338	End	3373
Name	OJ000302_10.0418.C7.o1.gs	Method	GENSCAN
Start	2338	End	3373
GI	none	Score	.42
Exons	2338..2457, 3216..3373		
Seq. No.	54673	Seq. ID	OJ000302_10.0418.C9
Gene No.	114638	Strand	+
Start	140	End	210
Name	OJ000302_10.0418.C9.o1.gs	Method	GENSCAN
Start	140	End	210
GI	none	Score	.48
Exons	140..210		
Seq. No.	54674	Seq. ID	OJ000302_10.0418.C10
Gene No.	114639	Strand	-
Start	202	End	914
Name	OJ000302_10.0418.C10.o1.tm	Method	TBLASTX:Maize
Start	25	End	399
GI	none	Score	56
Exons	25..399, 26..85		
Seq. No.	54674	Seq. ID	OJ000302_10.0418.C10
Gene No.	114639	Strand	-
Start	202	End	914
Name	OJ000302_10.0418.C10.o2.np	Method	AAT/NAP
Start	202	End	914
GI	4680209	Score	293
Exons	202..282, 506..914		
GI Descrip.	(AF114171) unknown [Sorghum bicolor]		
Seq. No.	54674	Seq. ID	OJ000302_10.0418.C10
Gene No.	114639	Strand	-
Start	202	End	914
Name	OJ000302_10.0418.C10.o1.gs	Method	GENSCAN
Start	228	End	839
GI	none	Score	.86

Exons	228..420, 509..839		
Seq. No.	54675	Seq. ID	OJ000302_10.0418.C11
Gene No.	114640	Strand	-
Start	109	End	4266
Name	OJ000302_10.0418.C11.o1.gs	Method	GENSCAN
Start	109	End	4266
GI	none	Score	.72
Exons	109..295, 533..675, 845..1009, 1172..1240, 4143..4266		
Seq. No.	54676	Seq. ID	OJ000302_10.0418.C12
Gene No.	114641	Strand	+
Start	309	End	9657
Name	OJ000302_10.0418.C12.o1.gp	Method	AAT/GAP
Start	309	End	8779
GI	542_1.R1084	Score	2130
Exons	309..563, 6094..6166, 6937..6998, 7119..7218, 7426..7467, 7558..7599, 7818..7972, 8351..8779		
GI Descrip.	'2914703 6.0e-09 (AC003974) unknown protein [Arabidopsis thaliana]'		
Seq. No.	54676	Seq. ID	OJ000302_10.0418.C12
Gene No.	114641	Strand	+
Start	309	End	9657
Name	OJ000302_10.0418.C12.o1.gs	Method	GENSCAN
Start	379	End	9657
GI	none	Score	.44
Exons	379..563, 1668..1750, 2177..2202, 4315..4480, 6094..6166, 7119..7218, 7426..7467, 7558..7758, 8924..8977, 9001..9657		
Seq. No.	54676	Seq. ID	OJ000302_10.0418.C12
Gene No.	114641	Strand	+
Start	309	End	9657
Name	OJ000302_10.0418.C12.o1.np	Method	AAT/NAP
Start	379	End	8462
GI	1076739	Score	1145
Exons	379..563, 6094..6166, 6937..6998, 7119..7218, 7426..7467, 7558..7599, 7818..7972, 8351..8462		
GI Descrip.	box protein - rice gi|508577 (L34271) box protein [Oryza sativa]		
Seq. No.	54676	Seq. ID	OJ000302_10.0418.C12
Gene No.	114641	Strand	+
Start	309	End	9657
Name	OJ000302_10.0418.C12.o1.tc	Method	TBLASTX:Cress
Start	400	End	7158
GI	none	Score	238
Exons	400..561, 408..554, 6086..6166, 6946..6999, 7129..7158		
Seq. No.	54676	Seq. ID	OJ000302_10.0418.C12
Gene No.	114641	Strand	+
Start	309	End	9657
Name	OJ000302_10.0418.C12.o1.tm	Method	TBLASTX:Maize
Start	400	End	7281
GI	none	Score	236
Exons	400..558, 405..554, 6949..6999, 7117..7281		
Seq. No.	54676	Seq. ID	OJ000302_10.0418.C12

Gene No.	114641	Strand	+
Start	309	End	9657
Name	OJ000302_10.0418.C12.o1.ts	Method	TBLASTX:Soybean
Start	400	End	6133
GI	none	Score	230
Exons	400..561, 408..554, 6086..6133		

Seq. No.	54676	Seq. ID	OJ000302_10.0418.C12
Gene No.	114641	Strand	+
Start	309	End	9657
Name	OJ000302_10.0418.C12.o1.tw	Method	TBLASTX:Wheat
Start	400	End	9300
GI	none	Score	230
Exons	400..558, 405..554, 6086..6166, 6949..6999, 7117..7188, 9157..9300		

Seq. No.	54677	Seq. ID	OJ000302_10.0418.C13
Gene No.	114642	Strand	+
Start	794	End	1242
Name	OJ000302_10.0418.C13.o1.gs	Method	GENSCAN
Start	794	End	1242
GI	none	Score	.55
Exons	794..1028, 1120..1242		

Seq. No.	54677	Seq. ID	OJ000302_10.0418.C13
Gene No.	114643	Strand	+
Start	8448	End	8968
Name	OJ000302_10.0418.C13.o2.gp	Method	AAT/GAP
Start	8448	End	8968
GI	uC-osroM202025c11a1	Score	1018
Exons	8448..8968		
GI Descrip.	'2258469 0.0e+00 (AF009179) replication protein A1 [Oryza sativa]'		

Seq. No.	54677	Seq. ID	OJ000302_10.0418.C13
Gene No.	114644	Strand	-
Start	1141	End	10700
Name	OJ000302_10.0418.C13.o1.np	Method	AAT/NAP
Start	1141	End	10700
GI	4836698	Score	273
Exons	1141..1173, 2803..2856, 3057..3132, 6961..7009, 7308..7341, 8256..8357, 8435..8527, 9414..9466, 10652..10700		
GI Descrip.	(AF132606) transcription factor CRC [Arabidopsis thaliana]		

Seq. No.	54677	Seq. ID	OJ000302_10.0418.C13
Gene No.	114644	Strand	-
Start	1141	End	10700
Name	OJ000302_10.0418.C13.o2.gs	Method	GENSCAN
Start	2268	End	2899
GI	none	Score	.89
Exons	2268..2536, 2764..2899		

Seq. No.	54677	Seq. ID	OJ000302_10.0418.C13
Gene No.	114644	Strand	-
Start	1141	End	10700
Name	OJ000302_10.0418.C13.o1.tm	Method	TBLASTX:Maize
Start	2483	End	9482

GI	none	Score	76
Exons	2483..2539, 2484..2537, 2794..2874, 3021..3134, 3036..3113, 3058..3135, 3059..3151, 6952..7008, 6954..7007, 6960..7010, 6961..7011, 7309..7407, 7313..7408, 7317..7421, 7317..7421, 8390..8527, 8390..8533, 8394..8534, 9411..9482, 9412..9465		

Seq. No.	54677	Seq. ID	OJ000302_10.0418.C13
Gene No.	114644	Strand	-
Start	1141	End	10700
Name	OJ000302_10.0418.C13.o3.gs	Method	GENSCAN
Start	6957	End	9531
GI	none	Score	.77
Exons	6957..7009, 7308..7401, 8390..8533, 9414..9531		

Seq. No.	54677	Seq. ID	OJ000302_10.0418.C13
Gene No.	114644	Strand	-
Start	1141	End	10700
Name	OJ000302_10.0418.C13.o1.gp	Method	AAT/GAP
Start	7578	End	7664
GI	5003295	Score	127
Exons	7578..7664		
GI Descrip.	2914703 6.0e-09 (AC003974) unknown protein [Arabidopsis thaliana]		

Seq. No.	54678	Seq. ID	OJ000302_10.0418.C14
Gene No.	114645	Strand	+
Start	1167	End	1216
Name	OJ000302_10.0418.C14.o1.gp	Method	AAT/GAP
Start	1167	End	1216
GI	53415_1.R1084	Score	58
Exons	1167..1216		
GI Descrip.	'130897/sp|P20664|PRI1_MOUSE 9.0e-18 DNA PRIMASE SMALL SUBUNIT (DNA PRIMASE 49 KD SUBUNIT) (P49) >gi_423418_pir__D46642 DNA primase (EC 2.7.7.-) 46K chain - mouse >gi_303661_dbj_BAA02744.1_ (D13544) primase small subunit [Mus musculus]'		

Seq. No.	54678	Seq. ID	OJ000302_10.0418.C14
Gene No.	114646	Strand	-
Start	1293	End	4334
Name	OJ000302_10.0418.C14.o2.gs	Method	GENSCAN
Start	1293	End	4334
GI	none	Score	.41
Exons	1293..1552, 2428..2590, 3816..3877, 4122..4334		

Seq. No.	54679	Seq. ID	OJ000302_10.0418.C15
Gene No.	114647	Strand	+
Start	820	End	1050
Name	OJ000302_10.0418.C15.o1.gs	Method	GENSCAN
Start	820	End	1050
GI	none	Score	.94
Exons	820..1050		

Seq. No.	54679	Seq. ID	OJ000302_10.0418.C15
Gene No.	114648	Strand	-
Start	161	End	2823
Name	OJ000302_10.0418.C15.o1.np	Method	AAT/NAP

Start	161	End	2823
GI	7432559	Score	55
Exons	161..409, 1472..1535, 1940..2006, 2804..2823		
GI Descrip.	NADH dehydrogenase (ubiquinone) (EC 1.6.5.3) chain 6 - maize mitochondrion gi|1843454|emb|CAA66370.1| (X97769) mitochondrial complex I subunit 6 [Zea mays]		

Seq. No.	54679	Seq. ID	OJ000302_10.0418.C15
Gene No.	114649	Strand	-
Start	3421	End	4305
Name	OJ000302_10.0418.C15.o2.gs	Method	GENSCAN
Start	3421	End	4305
GI	none	Score	.56
Exons	3421..3575, 4266..4305		

Seq. No.	54680	Seq. ID	OJ000302_10.0418.C16
Gene No.	114650	Strand	-
Start	3131	End	3726
Name	OJ000302_10.0418.C16.o1.gp	Method	AAT/GAP
Start	2126	End	2202
GI	LIB3477-003-P1-K1-E9	Score	119
Exons	2126..2202		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	54680	Seq. ID	OJ000302_10.0418.C16
Gene No.	114650	Strand	-
Start	3131	End	3726
Name	OJ000302_10.0418.C16.o1.gs	Method	GENSCAN
Start	3131	End	3726
GI	none	Score	.48
Exons	3131..3246, 3549..3726		

Seq. No.	54681	Seq. ID	OJ000302_10.0418.C17
Gene No.	114651	Strand	+
Start	710	End	13189
Name	OJ000302_10.0418.C17.o1.gs	Method	GENSCAN
Start	710	End	13189
GI	none	Score	.66
Exons	710..754, 1098..1269, 2590..2764, 2807..3884, 4460..4638, 5687..5766, 5927..6071, 6325..6988, 7376..7931, 8082..8495, 8943..9807, 11627..11964, 12631..12753, 12755..12926, 13058..13189		

Seq. No.	54681	Seq. ID	OJ000302_10.0418.C17
Gene No.	114651	Strand	+
Start	710	End	13189
Name	OJ000302_10.0418.C17.o1.tm	Method	TBLASTX:Maize
Start	1530	End	3920
GI	none	Score	61
Exons	1530..1586, 1657..1689, 2741..3019, 2799..3389, 2804..3796, 2806..3816, 2865..3824, 3441..3836, 3843..3920		

Seq. No.	54681	Seq. ID	OJ000302_10.0418.C17
Gene No.	114651	Strand	+
Start	710	End	13189

Name	OJ000302_10.0418.C17.o1.gp	Method	AAT/GAP
Start	1564	End	3235
GI	11111_1.R1084	Score	1048
Exons	1564..1688, 2807..3235		
GI Descrip.	'131251/sp|P12094|PSBA_ORYSA 8.0e-56 PHOTOSYSTEM Q(B) PROTEIN (32 KD THYLAKOID MEMBRANE PROTEIN) (PHOTOSYSTEM II PROTEIN D1) >gi_72661_pir__FMRZ32 photosystem II protein D1 precursor - rice chloroplast >gi_11958_emb_CAA34007_ (X15901) PSII 32kDa protein [Oryza sativa] >gi_343212 (M36191) Q-B protein (psbA) [Oryza sativa] >gi_226249_prf__1503143A psbA gene [Oryza sativa] >gi_226406_prf__15'		

Seq. No.	54681	Seq. ID	OJ000302_10.0418.C17
Gene No.	114651	Strand	+
Start	710	End	13189
Name	OJ000302_10.0418.C17.o1.np	Method	AAT/NAP
Start	2816	End	3932
GI	6554485	Score	1364
Exons	2816..3932		
GI Descrip.	(AC012394) unknown protein [Arabidopsis thaliana] gi|6573714|gb|AAF17634.1|AC009978_10 (AC009978) T23E18.26 [Arabidopsis thaliana]		

Seq. No.	54681	Seq. ID	OJ000302_10.0418.C17
Gene No.	114651	Strand	+
Start	710	End	13189
Name	OJ000302_10.0418.C17.o1.ts	Method	TBLASTX:Soybean
Start	2873	End	3799
GI	none	Score	581
Exons	2873..3514, 2926..3489, 3580..3798, 3589..3729, 3635..3799		

Seq. No.	54681	Seq. ID	OJ000302_10.0418.C17
Gene No.	114651	Strand	+
Start	710	End	13189
Name	OJ000302_10.0418.C17.o1.tc	Method	TBLASTX:Cress
Start	3023	End	3484
GI	none	Score	455
Exons	3023..3484, 3028..3480		

Seq. No.	54681	Seq. ID	OJ000302_10.0418.C17
Gene No.	114651	Strand	+
Start	710	End	13189
Name	OJ000302_10.0418.C17.o2.gp	Method	AAT/GAP
Start	3395	End	4093
GI	none	Score	1139
Exons	3395..4093		

Seq. No.	54681	Seq. ID	OJ000302_10.0418.C17
Gene No.	114651	Strand	+
Start	710	End	13189
Name	OJ000302_10.0418.C17.o2.tc	Method	TBLASTX:Cress
Start	3485	End	3801
GI	none	Score	313
Exons	3485..3796, 3544..3798, 3610..3801		

Seq. No.	54681	Seq. ID	OJ000302_10.0418.C17
Gene No.	114651	Strand	+

Start	710	End	13189
Name	OJ000302_10.0418.C17.o2.np	Method	AAT/NAP
Start	4377	End	9088
GI	6323370	Score	118
Exons	4377..4423, 5691..6079, 6377..6854, 8943..9088		
GI Descrip.	Proline-rich protein verprolin; Vrp1p gi|2507155|sp|P37370|VRP1_YEAST VERPROLIN gi|1078464|pir||S51342 verprolin - yeast (Saccharomyces cerevisiae) gi|609392|gb|AAB67263.1| (U19028) Vrp1p [Saccharomyces cerevisiae] gi|1585760|prf||2201477A MDP2 gene [Saccharomyces cerevisiae]		

Seq. No.	54681	Seq. ID	OJ000302_10.0418.C17
Gene No.	114651	Strand	+
Start	710	End	13189
Name	OJ000302_10.0418.C17.o3.tm	Method	TBLASTX:Maize
Start	8839	End	9096
GI	none	Score	196
Exons	8839..8922, 8920..9096, 8921..9091, 8922..9092		

Seq. No.	54681	Seq. ID	OJ000302_10.0418.C17
Gene No.	114651	Strand	+
Start	710	End	13189
Name	OJ000302_10.0418.C17.o2.tm	Method	TBLASTX:Maize
Start	9238	End	9812
GI	none	Score	119
Exons	9238..9348, 9241..9348, 9337..9807, 9339..9812, 9352..9744, 9369..9812		

Seq. No.	54681	Seq. ID	OJ000302_10.0418.C17
Gene No.	114651	Strand	+
Start	710	End	13189
Name	OJ000302_10.0418.C17.o2.ts	Method	TBLASTX:Soybean
Start	9259	End	9807
GI	none	Score	80
Exons	9259..9351, 9531..9704, 9532..9807		

Seq. No.	54681	Seq. ID	OJ000302_10.0418.C17
Gene No.	114651	Strand	+
Start	710	End	13189
Name	OJ000302_10.0418.C17.o3.gp	Method	AAT/GAP
Start	9429	End	9816
GI	none	Score	712
Exons	9429..9816		

Seq. No.	54682	Seq. ID	OJ000302_10.0418.C18
Gene No.	114652	Strand	+
Start	5448	End	9256
Name	OJ000302_10.0418.C18.o2.gs	Method	GENSCAN
Start	5448	End	9154
GI	none	Score	.67
Exons	5448..5521, 5557..5723, 6018..6102, 6202..6551, 7006..7229, 7697..7963, 8250..8599, 8937..9154		

Seq. No.	54682	Seq. ID	OJ000302_10.0418.C18
Gene No.	114652	Strand	+
Start	5448	End	9256

Name	OJ000302_10.0418.C18.o2.np	Method	AAT/NAP
Start	6959	End	9256
GI	5354158	Score	1217
Exons	6959..7229, 7697..7963, 8250..8599, 8937..9256		
GI Descrip.	(AF149841) digalactosyldiacylglycerol synthase [Arabidopsis thaliana] gi|5354160|gb|AAD42379.1|AF149842_1 (AF149842) digalactosyldiacylglycerol synthase [Arabidopsis thaliana] gi|6041825|gb|AAF02140.1|AC009918_12 (AC009918) digalactosyldiacylglycerol synthase [Arabidopsis thaliana]		

Seq. No.	54682	Seq. ID	OJ000302_10.0418.C18
Gene No.	114653	Strand	-
Start	113	End	4367
Name	OJ000302_10.0418.C18.o1.gp	Method	AAT/GAP
Start	113	End	1541
GI	18962_2.R1084	Score	1296
Exons	113..702, 1435..1541		
GI Descrip.	'3746882 2.0e-16 (AF086708) 26S proteasome subunit 11 [Homo sapiens]'		

Seq. No.	54682	Seq. ID	OJ000302_10.0418.C18
Gene No.	114653	Strand	-
Start	113	End	4367
Name	OJ000302_10.0418.C18.o1.tm	Method	TBLASTX:Maize
Start	256	End	3882
GI	none	Score	53
Exons	256..309, 263..310, 314..358, 344..406, 354..407, 360..413, 417..449, 474..704, 476..703, 517..708, 1430..1522, 1432..1533, 1433..1540, 1434..1538, 1619..1819, 1630..1842, 1630..1824, 1631..1825, 1632..1844, 2526..2570, 2527..2613, 2533..2607, 2724..3176, 2726..3175, 2730..3176, 2737..3177, 3720..3881, 3721..3786, 3841..3882		

Seq. No.	54682	Seq. ID	OJ000302_10.0418.C18
Gene No.	114653	Strand	-
Start	113	End	4367
Name	OJ000302_10.0418.C18.o3.tc	Method	TBLASTX:Cress
Start	499	End	708
GI	none	Score	149
Exons	499..708, 521..664, 529..702		

Seq. No.	54682	Seq. ID	OJ000302_10.0418.C18
Gene No.	114653	Strand	-
Start	113	End	4367
Name	OJ000302_10.0418.C18.o1.gs	Method	GENSCAN
Start	517	End	4367
GI	none	Score	.87
Exons	517..702, 1435..1534, 1630..1826, 2532..2612, 2726..3172, 3720..3902, 4332..4367		

Seq. No.	54682	Seq. ID	OJ000302_10.0418.C18
Gene No.	114653	Strand	-
Start	113	End	4367
Name	OJ000302_10.0418.C18.o1.ts	Method	TBLASTX:Soybean
Start	517	End	3864
GI	none	Score	120
Exons	517..708, 530..664, 532..702, 1432..1533, 1433..1537,		

1630..1836, 1632..1844, 1641..1841, 2511..2570, 2527..2613, 2555..2611, 2724..3170, 2724..2930, 2726..3175, 2726..3190, 3720..3863, 3748..3864

Seq. No.	54682	Seq. ID	OJ000302_10.0418.C18
Gene No.	114653	Strand	-
Start	113	End	4367
Name	OJ000302_10.0418.C18.o1.np	Method	AAT/NAP
Start	520	End	3887
GI	6434960	Score	397
Exons	520..702, 1435..1534, 1630..1826, 2532..2612, 2729..3172, 3720..3887		
GI Descrip.	(AF145311) 26S proteasome regulatory complex subunit p39A [Drosophila melanogaster]		

Seq. No.	54682	Seq. ID	OJ000302_10.0418.C18
Gene No.	114653	Strand	-
Start	113	End	4367
Name	OJ000302_10.0418.C18.o2.tw	Method	TBLASTX:Wheat
Start	631	End	1767
GI	none	Score	66
Exons	631..708, 632..703, 1430..1528, 1432..1533, 1433..1540, 1434..1535, 1630..1767, 1632..1766		

Seq. No.	54682	Seq. ID	OJ000302_10.0418.C18
Gene No.	114653	Strand	-
Start	113	End	4367
Name	OJ000302_10.0418.C18.o2.tc	Method	TBLASTX:Cress
Start	1432	End	1844
GI	none	Score	114
Exons	1432..1533, 1433..1540, 1630..1842, 1632..1844		

Seq. No.	54682	Seq. ID	OJ000302_10.0418.C18
Gene No.	114653	Strand	-
Start	113	End	4367
Name	OJ000302_10.0418.C18.o2.gp	Method	AAT/GAP
Start	1632	End	3037
GI	22207_1.R1084	Score	1095
Exons	1632..1826, 2532..2612, 2726..3037		
GI Descrip.	'5106785/gb|AAD39843.1| 5.0e-13 (AF083245) HSPC027 [Homo sapiens]'		

Seq. No.	54682	Seq. ID	OJ000302_10.0418.C18
Gene No.	114653	Strand	-
Start	113	End	4367
Name	OJ000302_10.0418.C18.o1.tw	Method	TBLASTX:Wheat
Start	1767	End	3116
GI	none	Score	88
Exons	1767..1835, 1767..1844, 1768..1842, 2526..2570, 2527..2613, 2531..2608, 2536..2616, 2721..2918, 2724..2942, 2726..2944, 2726..2944, 2945..3115, 2949..3116, 2955..3116		

Seq. No.	54682	Seq. ID	OJ000302_10.0418.C18
Gene No.	114653	Strand	-
Start	113	End	4367
Name	OJ000302_10.0418.C18.o1.tc	Method	TBLASTX:Cress
Start	2742	End	3875

GI	none	Score	337
Exons	2742..3170, 2744..3190, 2750..3175, 3720..3875		

Seq. No.	54682	Seq. ID	OJ000302_10.0418.C18
Gene No.	114653	Strand	-
Start	113	End	4367
Name	OJ000302_10.0418.C18.o3.tw	Method	TBLASTX:Wheat
Start	3117	End	3870
GI	none	Score	85
Exons	3117..3176, 3119..3175, 3124..3177, 3720..3869, 3721..3870		

Seq. No.	54682	Seq. ID	OJ000302_10.0418.C18
Gene No.	114654	Strand	
Start	6948	End	9231
Name	OJ000302_10.0418.C18.o2.ts	Method	TBLASTX:Soybean
Start	6948	End	9231
GI	none	Score	330
Exons	6948..7229, 6968..7228, 7658..7963, 7677..7964, 7678..7749, 7682..7966, 7696..7965, 7786..7968, 8261..8584, 8262..8597, 8928..9197, 8938..9231, 9000..9209		

Seq. No.	54682	Seq. ID	OJ000302_10.0418.C18
Gene No.	114654	Strand	
Start	6948	End	9231
Name	OJ000302_10.0418.C18.o4.tm	Method	TBLASTX:Maize
Start	6960	End	7169
GI	none	Score	282
Exons	6960..7169, 6963..7163, 6968..7168		

Seq. No.	54682	Seq. ID	OJ000302_10.0418.C18
Gene No.	114654	Strand	
Start	6948	End	9231
Name	OJ000302_10.0418.C18.o3.tm	Method	TBLASTX:Maize
Start	7169	End	7915
GI	none	Score	100
Exons	7169..7246, 7170..7229, 7655..7915, 7696..7914		

Seq. No.	54682	Seq. ID	OJ000302_10.0418.C18
Gene No.	114654	Strand	
Start	6948	End	9231
Name	OJ000302_10.0418.C18.o4.tc	Method	TBLASTX:Cress
Start	7831	End	8498
GI	none	Score	161
Exons	7831..7968, 7832..7966, 8252..8497, 8255..8443, 8262..8498		

Seq. No.	54682	Seq. ID	OJ000302_10.0418.C18
Gene No.	114654	Strand	
Start	6948	End	9231
Name	OJ000302_10.0418.C18.o5.tm	Method	TBLASTX:Maize
Start	8240	End	8402
GI	none	Score	184
Exons	8240..8401, 8262..8402		

Seq. No.	54682	Seq. ID	OJ000302_10.0418.C18
Gene No.	114654	Strand	
Start	6948	End	9231
Name	OJ000302_10.0418.C18.o2.tm	Method	TBLASTX:Maize

Start	8403	End	9213
GI	none	Score	275
Exons	8403..8600, 8403..8600, 8416..8601, 8922..9194, 8932..9213, 8997..9212		

Seq. No.	54683	Seq. ID	OJ000302_10.0418.C19
Gene No.	114655	Strand	+
Start	402	End	496
Name	OJ000302_10.0418.C19.o1.gs	Method	GENSCAN
Start	402	End	496
GI	none	Score	.47
Exons	402..496		

Seq. No.	54683	Seq. ID	OJ000302_10.0418.C19
Gene No.	114656	Strand	-
Start	1951	End	2266
Name	OJ000302_10.0418.C19.o2.gs	Method	GENSCAN
Start	1951	End	2266
GI	none	Score	.55
Exons	1951..2040, 2150..2266		

Seq. No.	54684	Seq. ID	OJ000302_10.0418.C20
Gene No.	114657	Strand	+
Start	419	End	1080
Name	OJ000302_10.0418.C20.o2.np	Method	AAT/NAP
Start	419	End	1080
GI	6006359	Score	66
Exons	419..519, 1045..1080		
GI Descrip.	(AP000559) hypothetical protein [Oryza sativa]		

Seq. No.	54684	Seq. ID	OJ000302_10.0418.C20
Gene No.	114658	Strand	-
Start	1	End	1080
Name	OJ000302_10.0418.C20.o1.np	Method	AAT/NAP
Start	1	End	1080
GI	7340920	Score	112
Exons	1..92, 1061..1080		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	54685	Seq. ID	OJ000302_10.0418.C21
Gene No.	114659	Strand	+
Start	594	End	5811
Name	OJ000302_10.0418.C21.o1.np	Method	AAT/NAP
Start	594	End	5811
GI	6730641	Score	304
Exons	594..727, 1160..1354, 4427..4630, 5296..5811		
GI Descrip.	(AC008262) F4N2.22 [Arabidopsis thaliana]		

Seq. No.	54685	Seq. ID	OJ000302_10.0418.C21
Gene No.	114659	Strand	+
Start	594	End	5811
Name	OJ000302_10.0418.C21.o1.gs	Method	GENSCAN
Start	1064	End	5811
GI	none	Score	.98
Exons	1064..1478, 2063..2119, 4410..4784, 5396..5811		

Seq. No.	54685	Seq. ID	OJ000302_10.0418.C21

Gene No.	114660	Strand	-
Start	6117	End	9889
Name	OJ000302_10.0418.C21.o2.gs	Method	GENSCAN
Start	6117	End	9835
GI	none	Score	.98
Exons	6117..6235, 6745..6931, 7142..7262, 7352..7512, 7618..7762, 8226..8328, 8417..8684, 8799..8976, 9081..9305, 9405..9551, 9690..9835		

Seq. No.	54685	Seq. ID	OJ000302_10.0418.C21
Gene No.	114660	Strand	-
Start	6117	End	9889
Name	OJ000302_10.0418.C21.o1.gp	Method	AAT/GAP
Start	6410	End	9889
GI	2258468	Score	4280
Exons	6410..6931, 7142..7262, 7352..7512, 7618..7762, 7843..7921, 8006..8130, 8226..8328, 8417..8684, 8799..8976, 9081..9305, 9405..9551, 9690..9889		
GI Descrip.	2258469 0.0e+00 (AF009179) replication protein A1 [Oryza sativa]		

Seq. No.	54685	Seq. ID	OJ000302_10.0418.C21
Gene No.	114660	Strand	-
Start	6117	End	9889
Name	OJ000302_10.0418.C21.o2.np	Method	AAT/NAP
Start	6740	End	9835
GI	7440032	Score	2889
Exons	6740..6931, 7142..7262, 7352..7512, 7618..7762, 7843..7921, 8006..8130, 8226..8328, 8417..8684, 8799..8976, 9081..9305, 9405..9551, 9690..9835		
GI Descrip.	probable replication protein A1 - rice gi|2258469|gb|AAB71836.1| (AF009179) replication protein A1 [Oryza sativa]		

Seq. No.	54685	Seq. ID	OJ000302_10.0418.C21
Gene No.	114661	Strand	-
Start	10556	End	15548
Name	OJ000302_10.0418.C21.o2.gp	Method	AAT/GAP
Start	10436	End	11949
GI	37874.1.R1084	Score	1177
Exons	10436..10861, 11679..11949		
GI Descrip.	'4455232/emb|CAB36731.1| 3.0e-37 (AL035523) putative protein [Arabidopsis thaliana]'		

Seq. No.	54685	Seq. ID	OJ000302_10.0418.C21
Gene No.	114661	Strand	-
Start	10556	End	15548
Name	OJ000302_10.0418.C21.o3.gs	Method	GENSCAN
Start	10556	End	15453
GI	none	Score	.97
Exons	10556..10861, 11679..11988, 12349..12474, 12561..12766, 14228..14320, 15274..15453		

Seq. No.	54685	Seq. ID	OJ000302_10.0418.C21
Gene No.	114661	Strand	-
Start	10556	End	15548
Name	OJ000302_10.0418.C21.o3.np	Method	AAT/NAP
Start	10559	End	15453
GI	7485455	Score	1551

Exons	10559..10861, 11679..11988, 12349..12474, 12561..12766, 13198..13330, 13739..13863, 14228..14320, 14490..14666, 15274..15453
GI Descrip.	hypothetical protein F13M23.30 - Arabidopsis thaliana gi|4455232|emb|CAB36731.1| (AL035523) putative protein [Arabidopsis thaliana] gi|7269339|emb|CAB79398.1| (AL161562) putative protein [Arabidopsis thaliana]

Seq. No.	54685	Seq. ID	OJ000302_10.0418.C21
Gene No.	114661	Strand	-
Start	10556	End	15548
Name	OJ000302_10.0418.C21.o3.gp	Method	AAT/GAP
Start	11887	End	13223
GI	31542_1.R1084	Score	821
Exons	11887..11988, 12349..12474, 12561..12766, 13198..13223		
GI Descrip.	'4455232/emb|CAB36731.1| 1.0e-69 (AL035523) putative protein [Arabidopsis thaliana]'		

Seq. No.	54685	Seq. ID	OJ000302_10.0418.C21
Gene No.	114661	Strand	-
Start	10556	End	15548
Name	OJ000302_10.0418.C21.o4.gp	Method	AAT/GAP
Start	14588	End	15548
GI	35881_1.R1084	Score	842
Exons	14588..14613, 14717..14781, 14895..14986, 15274..15548		
GI Descrip.	'2258469 0.0e+00 (AF009179) replication protein A1 [Oryza sativa]'		

Seq. No.	54685	Seq. ID	OJ000302_10.0418.C21
Gene No.	114662	Strand	-
Start	15817	End	16328
Name	OJ000302_10.0418.C21.o7.tm	Method	TBLASTX:Maize
Start	1059	End	1377
GI	none	Score	266
Exons	1059..1106, 1064..1360, 1178..1234, 1234..1377		

Seq. No.	54685	Seq. ID	OJ000302_10.0418.C21
Gene No.	114662	Strand	-
Start	15817	End	16328
Name	OJ000302_10.0418.C21.o8.tm	Method	TBLASTX:Maize
Start	4423	End	4744
GI	none	Score	53
Exons	4423..4458, 4424..4462, 4445..4672, 4464..4628, 4505..4672, 4631..4744, 4671..4721		

Seq. No.	54685	Seq. ID	OJ000302_10.0418.C21
Gene No.	114662	Strand	-
Start	15817	End	16328
Name	OJ000302_10.0418.C21.o4.tm	Method	TBLASTX:Maize
Start	5396	End	5801
GI	none	Score	39
Exons	5396..5461, 5524..5619, 5584..5619, 5625..5801, 5626..5796		

Seq. No.	54685	Seq. ID	OJ000302_10.0418.C21
Gene No.	114662	Strand	-
Start	15817	End	16328
Name	OJ000302_10.0418.C21.o2.ts	Method	TBLASTX:Soybean

Start	5587	End	5792
GI	none	Score	48
Exons	5587..5622, 5625..5744, 5625..5792, 5626..5790		

Seq. No.	54685	Seq. ID	OJ000302_10.0418.C21
Gene No.	114662	Strand	-
Start	15817	End	16328
Name	OJ000302_10.0418.C21.o1.tc	Method	TBLASTX:Cress
Start	5625	End	5796
GI	none	Score	284
Exons	5625..5795, 5626..5796		

Seq. No.	54685	Seq. ID	OJ000302_10.0418.C21
Gene No.	114662	Strand	-
Start	15817	End	16328
Name	OJ000302_10.0418.C21.o1.tm	Method	TBLASTX:Maize
Start	6737	End	8146
GI	none	Score	189
Exons	6737..6934, 6737..6934, 7140..7271, 7141..7239, 7142..7264, 7349..7513, 7351..7515, 7353..7514, 7353..7574, 7354..7515, 7601..7762, 7618..7773, 7620..7763, 7821..7916, 7839..7922, 7840..7923, 7987..8127, 8001..8141, 8005..8127, 8060..8146		

Seq. No.	54685	Seq. ID	OJ000302_10.0418.C21
Gene No.	114662	Strand	-
Start	15817	End	16328
Name	OJ000302_10.0418.C21.o5.tm	Method	TBLASTX:Maize
Start	8225	End	8603
GI	none	Score	148
Exons	8225..8335, 8226..8336, 8401..8571, 8416..8526, 8418..8576, 8418..8573, 8551..8601, 8574..8603		

Seq. No.	54685	Seq. ID	OJ000302_10.0418.C21
Gene No.	114662	Strand	-
Start	15817	End	16328
Name	OJ000302_10.0418.C21.o3.ts	Method	TBLASTX:Soybean
Start	8418	End	8700
GI	none	Score	51
Exons	8418..8495, 8419..8499, 8496..8684, 8497..8700		

Seq. No.	54685	Seq. ID	OJ000302_10.0418.C21
Gene No.	114662	Strand	-
Start	15817	End	16328
Name	OJ000302_10.0418.C21.o1.tw	Method	TBLASTX:Wheat
Start	10545	End	10730
GI	none	Score	135
Exons	10545..10730, 10562..10729		

Seq. No.	54685	Seq. ID	OJ000302_10.0418.C21
Gene No.	114662	Strand	-
Start	15817	End	16328
Name	OJ000302_10.0418.C21.o1.ts	Method	TBLASTX:Soybean
Start	10557	End	15369
GI	none	Score	113
Exons	10557..10730, 10562..10834, 11673..11786, 11679..11987, 11689..11988, 12345..12494, 12348..12488, 12561..12755, 12566..12769, 12566..12757, 13198..13338, 13198..13335,		

13199..13339, 13442..13531, 13447..13530, 13450..13551,
13729..13863, 13730..13864, 14219..14326, 14229..14327,
14490..14615, 14494..14604, 14710..14751, 14715..14753,
14895..14987, 14897..14989, 15292..15369

Seq. No.	54685	Seq. ID	OJ000302_10.0418.C21
Gene No.	114662	Strand	-
Start	15817	End	16328
Name	OJ000302_10.0418.C21.o3.tm	Method	TBLASTX:Maize
Start	10557	End	10849
GI	none	Score	242
Exons	10557..10745, 10562..10849, 10670..10753		

Seq. No.	54685	Seq. ID	OJ000302_10.0418.C21
Gene No.	114662	Strand	-
Start	15817	End	16328
Name	OJ000302_10.0418.C21.o6.tm	Method	TBLASTX:Maize
Start	11679	End	11880
GI	none	Score	162
Exons	11679..11879, 11679..11879, 11683..11880		

Seq. No.	54685	Seq. ID	OJ000302_10.0418.C21
Gene No.	114662	Strand	-
Start	15817	End	16328
Name	OJ000302_10.0418.C21.o2.tm	Method	TBLASTX:Maize
Start	11884	End	13494
GI	none	Score	118
Exons	11884..11988, 11886..11987, 11893..11988, 12340..12402, 12345..12482, 12346..12468, 12348..12476, 12451..12507, 12561..12755, 12563..12769, 12563..12757, 12565..12786, 13198..13332, 13199..13330, 13453..13494		

Seq. No.	54685	Seq. ID	OJ000302_10.0418.C21
Gene No.	114662	Strand	-
Start	15817	End	16328
Name	OJ000302_10.0418.C21.o9.tm	Method	TBLASTX:Maize
Start	13495	End	14607
GI	none	Score	136
Exons	13495..13542, 13732..13863, 13732..13863, 13733..13864, 13736..13864, 13737..13868, 13746..13868, 14219..14326, 14225..14317, 14229..14321, 14490..14606, 14491..14607, 14491..14607		

Seq. No.	54685	Seq. ID	OJ000302_10.0418.C21
Gene No.	114662	Strand	-
Start	15817	End	16328
Name	OJ000302_10.0418.C21.o5.gp	Method	AAT/GAP
Start	15817	End	16328
GI	none	Score	994
Exons	15817..16328		

Seq. No.	54686	Seq. ID	OJ000302_10.0418.C22
Gene No.	114663	Strand	-
Start	674	End	4323
Name	OJ000302_10.0418.C22.o1.np	Method	AAT/NAP
Start	674	End	4323
GI	4091008	Score	102

Exons	674..736, 2518..2711, 3081..3173, 4232..4323		
GI Descrip.	(AF040700) methionyl-tRNA synthetase [Oryza sativa]		
Seq. No.	54686	Seq. ID	OJ000302_10.0418.C22
Gene No.	114663	Strand	-
Start	674	End	4323
Name	OJ000302_10.0418.C22.o1.gs	Method	GENSCAN
Start	1391	End	3291
GI	none	Score	.56
Exons	1391..1488, 2306..2380, 3051..3291		
Seq. No.	54687	Seq. ID	OJ000302_10.0418.C25
Gene No.	114664	Strand	-
Start	1	End	907
Name	OJ000302_10.0418.C25.o1.np	Method	AAT/NAP
Start	1	End	907
GI	7488136	Score	334
Exons	1..100, 200..370, 482..652, 874..907		
GI Descrip.	probable myosin II heavy chain - Arabidopsis thaliana gi|2245081|emb|CAB10503.1| (Z97343) myosin II heavy chain like protein [Arabidopsis thaliana]		
Seq. No.	54687	Seq. ID	OJ000302_10.0418.C25
Gene No.	114664	Strand	-
Start	1	End	907
Name	OJ000302_10.0418.C25.o1.tm	Method	TBLASTX:Maize
Start	2	End	662
GI	none	Score	200
Exons	2..70, 200..373, 447..662, 479..658		
Seq. No.	54687	Seq. ID	OJ000302_10.0418.C25
Gene No.	114664	Strand	-
Start	1	End	907
Name	OJ000302_10.0418.C25.o1.gs	Method	GENSCAN
Start	15	End	652
GI	none	Score	.74
Exons	15..100, 200..652		
Seq. No.	54687	Seq. ID	OJ000302_10.0418.C25
Gene No.	114664	Strand	-
Start	1	End	907
Name	OJ000302_10.0418.C25.o1.ts	Method	TBLASTX:Soybean
Start	198	End	634
GI	none	Score	56
Exons	198..245, 206..373, 447..599, 479..634		
Seq. No.	54688	Seq. ID	OJ000302_19.0417.C1
Gene No.	114665	Strand	+
Start	1	End	1129
Name	OJ000302_19.0417.C1.o1.np	Method	AAT/NAP
Start	1	End	1129
GI	7489501	Score	406
Exons	1..1129		
GI Descrip.	NBS-LRR type resistance protein - rice (fragment) gi|2792220|gb|AAB96985.1| (AF032688) NBS-LRR type resistance protein [Oryza sativa]		

Seq. No.	54688	Seq. ID	OJ000302_19.0417.C1
Gene No.	114665	Strand	+
Start	1	End	1129
Name	OJ000302_19.0417.C1.o1.ts	Method	TBLASTX:Soybean
Start	144	End	1001
GI	none	Score	204
Exons	144..422, 804..1001, 813..947, 840..932		

Seq. No.	54688	Seq. ID	OJ000302_19.0417.C1
Gene No.	114665	Strand	+
Start	1	End	1129
Name	OJ000302_19.0417.C1.o1.gs	Method	GENSCAN
Start	219	End	1084
GI	none	Score	.49
Exons	219..1084		

Seq. No.	54689	Seq. ID	OJ000302_19.0417.C2
Gene No.	114666	Strand	-
Start	645	End	941
Name	OJ000302_19.0417.C2.o1.gs	Method	GENSCAN
Start	645	End	941
GI	none	Score	.63
Exons	645..701, 818..941		

Seq. No.	54690	Seq. ID	OJ000302_19.0417.C3
Gene No.	114667	Strand	+
Start	5683	End	11710
Name	OJ000302_19.0417.C3.o2.gp	Method	AAT/GAP
Start	5532	End	6004
GI	none	Score	938
Exons	5532..6004		

Seq. No.	54690	Seq. ID	OJ000302_19.0417.C3
Gene No.	114667	Strand	+
Start	5683	End	11710
Name	OJ000302_19.0417.C3.o2.gs	Method	GENSCAN
Start	5683	End	11042
GI	none	Score	.75
Exons	5683..6297, 6922..7069, 7745..7857, 8299..8461, 8568..8741, 8754..8828, 8901..9019, 9099..9260, 9411..9654, 9786..9922, 10663..10801, 10929..11042		

Seq. No.	54690	Seq. ID	OJ000302_19.0417.C3
Gene No.	114667	Strand	+
Start	5683	End	11710
Name	OJ000302_19.0417.C3.o2.np	Method	AAT/NAP
Start	5854	End	11710
GI	7486691	Score	2846
Exons	5854..6297, 6922..7069, 7229..7318, 7643..7857, 7967..8212, 8299..8461, 8568..8828, 8901..9019, 9099..9260, 9411..9501, 9546..9667, 9793..9924, 10665..10801, 10929..11129, 11217..11710		
GI Descrip.	hypothetical protein F8K4.6 - Arabidopsis thaliana gi|3367519|gb|AAC28504.1| (AC004392) Contains similarity to gb|U51898 Ca2+-independent phospholipase A2 from Rattus norvegicus. [Arabidopsis thaliana]		

Seq. No.	54690	Seq. ID	OJ000302_19.0417.C3

Gene No.	114668	Strand	-
Start	1	End	158
Name	OJ000302_19.0417.C3.o1.np	Method	AAT/NAP
Start	1	End	158
GI	543911	Score	91
Exons	1..158		
GI Descrip.	SUCCINATE DEHYDROGENASE CYTOCHROME B560 SUBUNIT (SUCCINATE DEHYDROGENASE, SUBUNIT III) gi|282760|pir||S25968 hypothetical protein 137 - liverwort (Marchantia polymorpha) mitochondrion gi|786193 (M68929) ORF137 [Marchantia polymorpha]		

Seq. No.	54690	Seq. ID	OJ000302_19.0417.C3
Gene No.	114669	Strand	-
Start	117	End	574
Name	OJ000302_19.0417.C3.o1.gp	Method	AAT/GAP
Start	117	End	574
GI	none	Score	916
Exons	117..574		

Seq. No.	54690	Seq. ID	OJ000302_19.0417.C3
Gene No.	114670	Strand	-
Start	692	End	3210
Name	OJ000302_19.0417.C3.o3.tm	Method	TBLASTX:Maize
Start	1	End	772
GI	none	Score	279
Exons	1..198, 1..198, 3..200, 205..270, 206..262, 207..272, 304..327, 698..763, 698..772, 699..764		

Seq. No.	54690	Seq. ID	OJ000302_19.0417.C3
Gene No.	114670	Strand	-
Start	692	End	3210
Name	OJ000302_19.0417.C3.o1.tw	Method	TBLASTX:Wheat
Start	69	End	767
GI	none	Score	383
Exons	69..290, 70..327, 128..325, 698..766, 698..766, 699..767, 702..767		

Seq. No.	54690	Seq. ID	OJ000302_19.0417.C3
Gene No.	114670	Strand	-
Start	692	End	3210
Name	OJ000302_19.0417.C3.o1.gs	Method	GENSCAN
Start	692	End	3210
GI	none	Score	.67
Exons	692..765, 1501..1583, 2146..2234, 3139..3210		

Seq. No.	54690	Seq. ID	OJ000302_19.0417.C3
Gene No.	114671	Strand	
Start	6250	End	7490
Name	OJ000302_19.0417.C3.o3.ts	Method	TBLASTX:Soybean
Start	6250	End	7490
GI	none	Score	74
Exons	6250..6306, 6922..7068, 6924..7067, 6950..7069, 7227..7307, 7228..7308, 7397..7489, 7398..7490		

Seq. No.	54690	Seq. ID	OJ000302_19.0417.C3
Gene No.	114672	Strand	
Start	7792	End	9013

Name	OJ000302_19.0417.C3.o1.ts	Method	TBLASTX:Soybean
Start	7792	End	8605
GI	none	Score	93
Exons	7792..7860, 7797..7859, 7966..8055, 7967..8218, 8099..8215, 8297..8458, 8298..8459, 8301..8462, 8302..8463, 8561..8605, 8563..8604		

Seq. No.	54690	Seq. ID	OJ000302_19.0417.C3
Gene No.	114672	Strand	
Start	7792	End	9013
Name	OJ000302_19.0417.C3.o1.tm	Method	TBLASTX:Maize
Start	8432	End	9013
GI	none	Score	55
Exons	8432..8479, 8433..8462, 8434..8463, 8561..8833, 8563..8829, 8570..8845, 8571..8855, 8882..9013, 8899..9012		

Seq. No.	54690	Seq. ID	OJ000302_19.0417.C3
Gene No.	114673	Strand	
Start	9096	End	9663
Name	OJ000302_19.0417.C3.o2.tw	Method	TBLASTX:Wheat
Start	9096	End	9663
GI	none	Score	260
Exons	9096..9260, 9097..9249, 9098..9256, 9405..9509, 9409..9510, 9409..9492, 9410..9508, 9521..9661, 9522..9653, 9523..9663, 9574..9657		

Seq. No.	54690	Seq. ID	OJ000302_19.0417.C3
Gene No.	114674	Strand	
Start	10702	End	11311
Name	OJ000302_19.0417.C3.o2.tm	Method	TBLASTX:Maize
Start	10702	End	11311
GI	none	Score	166
Exons	10702..10800, 10702..10806, 10902..11114, 10928..11143, 10928..11065, 10966..11139, 11204..11311, 11211..11309		

Seq. No.	54690	Seq. ID	OJ000302_19.0417.C3
Gene No.	114675	Strand	
Start	11233	End	11527
Name	OJ000302_19.0417.C3.o2.ts	Method	TBLASTX:Soybean
Start	11233	End	11527
GI	none	Score	102
Exons	11233..11316, 11234..11317, 11238..11342, 11321..11413, 11393..11527, 11395..11526		

Seq. No.	54690	Seq. ID	OJ000302_19.0417.C3
Gene No.	114676	Strand	
Start	11466	End	11644
Name	OJ000302_19.0417.C3.o4.tm	Method	TBLASTX:Maize
Start	11466	End	11644
GI	none	Score	176
Exons	11466..11642, 11467..11643, 11468..11644		

Seq. No.	54691	Seq. ID	OJ000302_19.0417.C4
Gene No.	114677	Strand	+
Start	1	End	1404
Name	OJ000302_19.0417.C4.o1.np	Method	AAT/NAP
Start	1	End	1291

GI	7486691	Score	520
Exons	1..175, 247..336, 857..1291		
GI Descrip.	hypothetical protein F8K4.6 - Arabidopsis thaliana gi|3367519|gb|AAC28504.1| (AC004392) Contains similarity to gb|U51898 Ca2+-independent phospholipase A2 from Rattus norvegicus. [Arabidopsis thaliana]		

Seq. No.	54691	Seq. ID	OJ000302_19.0417.C4
Gene No.	114677	Strand	+
Start	1	End	1404
Name	OJ000302_19.0417.C4.o2.tm	Method	TBLASTX:Maize
Start	1	End	276
GI	none	Score	143
Exons	1..108, 2..109, 3..113, 64..132, 65..178, 110..178, 138..179, 241..276, 244..273		

Seq. No.	54691	Seq. ID	OJ000302_19.0417.C4
Gene No.	114677	Strand	+
Start	1	End	1404
Name	OJ000302_19.0417.C4.o1.gs	Method	GENSCAN
Start	247	End	1297
GI	none	Score	.94
Exons	247..336, 857..1297		

Seq. No.	54691	Seq. ID	OJ000302_19.0417.C4
Gene No.	114677	Strand	+
Start	1	End	1404
Name	OJ000302_19.0417.C4.o1.tm	Method	TBLASTX:Maize
Start	277	End	1404
GI	none	Score	72
Exons	277..315, 298..345, 298..336, 857..1156, 857..1120, 1145..1303, 1162..1302, 1321..1404		

Seq. No.	54691	Seq. ID	OJ000302_19.0417.C4
Gene No.	114677	Strand	+
Start	1	End	1404
Name	OJ000302_19.0417.C4.o1.ts	Method	TBLASTX:Soybean
Start	857	End	1126
GI	none	Score	184
Exons	857..1048, 857..991, 859..1047, 1082..1126		

Seq. No.	54692	Seq. ID	OJ000302_19.0417.C5
Gene No.	114678	Strand	+
Start	263	End	1135
Name	OJ000302_19.0417.C5.o1.gs	Method	GENSCAN
Start	263	End	1135
GI	none	Score	.66
Exons	263..313, 340..397, 1038..1135		

Seq. No.	54692	Seq. ID	OJ000302_19.0417.C5
Gene No.	114679	Strand	-
Start	2121	End	6780
Name	OJ000302_19.0417.C5.o2.gs	Method	GENSCAN
Start	2121	End	6780
GI	none	Score	.72
Exons	2121..2727, 2771..2818, 3145..3380, 3830..3916, 4252..4569, 6736..6780		

Seq. No.	54693	Seq. ID	OJ000302_19.0417.C6
Gene No.	114680	Strand	+
Start	443	End	619
Name	OJ000302_19.0417.C6.o1.gs	Method	GENSCAN
Start	443	End	619
GI	none	Score	.48
Exons	443..619		

Seq. No.	54694	Seq. ID	OJ000302_19.0417.C7
Gene No.	114681	Strand	-
Start	1	End	1038
Name	OJ000302_19.0417.C7.o1.np	Method	AAT/NAP
Start	1	End	633
GI	7489396	Score	158
Exons	1..170, 459..633		
GI Descrip.	NBS-LRR type resistance protein - barley (fragment) gi|2792208|gb|AAB96979.1| (AF032682) NBS-LRR type resistance protein [Hordeum vulgare]		

Seq. No.	54694	Seq. ID	OJ000302_19.0417.C7
Gene No.	114681	Strand	-
Start	1	End	1038
Name	OJ000302_19.0417.C7.o1.gs	Method	GENSCAN
Start	67	End	1038
GI	none	Score	.94
Exons	67..1038		

Seq. No.	54695	Seq. ID	OJ000302_19.0417.C8
Gene No.	114682	Strand	+
Start	510	End	6912
Name	OJ000302_19.0417.C8.o1.gs	Method	GENSCAN
Start	510	End	6912
GI	none	Score	.57
Exons	510..1605, 1785..2714, 2848..3045, 3485..3635, 3741..3987, 4162..4287, 4444..4569, 4662..4960, 5037..5295, 5389..5571, 5729..5784, 5885..6016, 6080..6127, 6132..6334, 6752..6912		

Seq. No.	54695	Seq. ID	OJ000302_19.0417.C8
Gene No.	114682	Strand	+
Start	510	End	6912
Name	OJ000302_19.0417.C8.o1.np	Method	AAT/NAP
Start	597	End	5799
GI	7228438	Score	5476
Exons	597..2557, 3979..4077, 4162..4569, 4662..4960, 5037..5295, 5389..5571, 5729..5799		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog (AC003981) [Oryza sativa]		

Seq. No.	54695	Seq. ID	OJ000302_19.0417.C8
Gene No.	114682	Strand	+
Start	510	End	6912
Name	OJ000302_19.0417.C8.o2.gp	Method	AAT/GAP
Start	1567	End	1997
GI	5701669	Score	836
Exons	1567..1997		

GI Descrip.	5441880/dbj|BAA82378.1| 5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		
Seq. No.	54695	Seq. ID	OJ000302_19.0417.C8
Gene No.	114682	Strand	+
Start	510	End	6912
Name	OJ000302_19.0417.C8.o3.gp	Method	AAT/GAP
Start	4788	End	5287
GI	LIB3475-007-P1-K1-G8	Score	801
Exons	4788..4960, 5037..5287		
GI Descrip.	'5441880/dbj|BAA82378.1| 5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]'		
Seq. No.	54695	Seq. ID	OJ000302_19.0417.C8
Gene No.	114683	Strand	-
Start	1	End	71
Name	OJ000302_19.0417.C8.o1.gp	Method	AAT/GAP
Start	1	End	71
GI	7406_1.R1084	Score	93
Exons	1..71		
GI Descrip.	'1122315/emb|CAA63901| 7.0e-10 (X94191) heat shock protein 17.0 [Pennisetum glaucum]'		
Seq. No.	54695	Seq. ID	OJ000302_19.0417.C8
Gene No.	114684	Strand	-
Start	6070	End	6935
Name	OJ000302_19.0417.C8.o2.np	Method	AAT/NAP
Start	6070	End	6935
GI	6721543	Score	69
Exons	6070..6110, 6429..6504, 6808..6935		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa]		
Seq. No.	54695	Seq. ID	OJ000302_19.0417.C8
Gene No.	114685	Strand	-
Start	9752	End	10449
Name	OJ000302_19.0417.C8.o1.tm	Method	TBLASTX:Maize
Start	1524	End	2119
GI	none	Score	89
Exons	1524..1652, 1538..1630, 1685..1984, 1702..1923, 2048..2119		
Seq. No.	54695	Seq. ID	OJ000302_19.0417.C8
Gene No.	114685	Strand	-
Start	9752	End	10449
Name	OJ000302_19.0417.C8.o1.tw	Method	TBLASTX:Wheat
Start	1817	End	2197
GI	none	Score	204
Exons	1817..2011, 1826..2014, 2030..2197, 2044..2136		
Seq. No.	54695	Seq. ID	OJ000302_19.0417.C8
Gene No.	114685	Strand	-
Start	9752	End	10449
Name	OJ000302_19.0417.C8.o2.gs	Method	GENSCAN
Start	9752	End	10449
GI	none	Score	.49
Exons	9752..9800, 10349..10449		

Seq. No.	54696	Seq. ID	OJ000302_19.0417.C9
Gene No.	114686	Strand	-
Start	1	End	1354
Name	OJ000302_19.0417.C9.o1.np	Method	AAT/NAP
Start	1	End	1354
GI	6721547	Score	85
Exons	1..104, 1267..1354		
GI Descrip.	(AP001073) Similar to Oryza sativa gene for Pib. (AB013448)		

Seq. No.	54697	Seq. ID	OJ000302_19.0417.C11
Gene No.	114687	Strand	-
Start	1	End	1986
Name	OJ000302_19.0417.C11.o1.gp	Method	AAT/GAP
Start	1	End	359
GI	LIB3475-006-P1-K1-F11	Score	718
Exons	1..359		
GI Descrip.	'2258317 7.0e-15 (AF004879) resistance complex protein I2C-2 [Lycopersicon esculentum]'		

Seq. No.	54697	Seq. ID	OJ000302_19.0417.C11
Gene No.	114687	Strand	-
Start	1	End	1986
Name	OJ000302_19.0417.C11.o1.np	Method	AAT/NAP
Start	1	End	1986
GI	7489065	Score	689
Exons	1..1986		
GI Descrip.	resistance complex protein I2C-1 - tomato gi|2258315|gb|AAB63274.1| (AF004878) resistance complex protein I2C-1 [Lycopersicon esculentum]		

Seq. No.	54697	Seq. ID	OJ000302_19.0417.C11
Gene No.	114687	Strand	-
Start	1	End	1986
Name	OJ000302_19.0417.C11.o1.tm	Method	TBLASTX:Maize
Start	226	End	561
GI	none	Score	183
Exons	226..561		

Seq. No.	54697	Seq. ID	OJ000302_19.0417.C11
Gene No.	114687	Strand	-
Start	1	End	1986
Name	OJ000302_19.0417.C11.o1.ts	Method	TBLASTX:Soybean
Start	340	End	1464
GI	none	Score	41
Exons	340..570, 634..747, 649..732, 998..1069, 1180..1296, 1184..1264, 1324..1464, 1340..1462		

Seq. No.	54698	Seq. ID	OJ000302_19.0417.C12
Gene No.	114688	Strand	+
Start	3203	End	4931
Name	OJ000302_19.0417.C12.o1.np	Method	AAT/NAP
Start	3203	End	4931
GI	7489501	Score	546
Exons	3203..4931		
GI Descrip.	NBS-LRR type resistance protein - rice (fragment) gi|2792220|gb|AAB96985.1| (AF032688) NBS-LRR type resistance		

protein [Oryza sativa]

Seq. No.	54698	Seq. ID	OJ000302_19.0417.C12
Gene No.	114689	Strand	+
Start	7801	End	8003
Name	OJ000302_19.0417.C12.o3.np	Method	AAT/NAP
Start	7801	End	8003
GI	6539571	Score	73
Exons	7801..8003		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	54698	Seq. ID	OJ000302_19.0417.C12
Gene No.	114690	Strand	-
Start	50	End	536
Name	OJ000302_19.0417.C12.o1.gs	Method	GENSCAN
Start	50	End	536
GI	none	Score	.89
Exons	50..536		

Seq. No.	54698	Seq. ID	OJ000302_19.0417.C12
Gene No.	114691	Strand	-
Start	3597	End	7571
Name	OJ000302_19.0417.C12.o1.gp	Method	AAT/GAP
Start	3597	End	7571
GI	none	Score	737
Exons	3597..3662, 7155..7285, 7357..7571		

Seq. No.	54699	Seq. ID	OJ000302_19.0417.C14
Gene No.	114692	Strand	-
Start	113	End	1713
Name	OJ000302_19.0417.C14.o1.gs	Method	GENSCAN
Start	113	End	1538
GI	none	Score	.53
Exons	113..370, 416..1538		

Seq. No.	54699	Seq. ID	OJ000302_19.0417.C14
Gene No.	114692	Strand	-
Start	113	End	1713
Name	OJ000302_19.0417.C14.o1.np	Method	AAT/NAP
Start	309	End	1713
GI	7489454	Score	144
Exons	309..613, 965..1213, 1658..1713		
GI Descrip.	bacterial blight-resistance protein Xa1 - rice gi|2943742|dbj|BAA25068.1| (AB002266) XA1 [Oryza sativa]		

Seq. No.	54700	Seq. ID	OJ000302_19.0417.C15
Gene No.	114693	Strand	-
Start	107	End	1834
Name	OJ000302_19.0417.C15.o1.gs	Method	GENSCAN
Start	107	End	1834
GI	none	Score	.45
Exons	107..368, 516..1834		

Seq. No.	54700	Seq. ID	OJ000302_19.0417.C15
Gene No.	114693	Strand	-
Start	107	End	1834
Name	OJ000302_19.0417.C15.o1.np	Method	AAT/NAP

Start	188	End	1072
GI	6649085	Score	384
Exons	188..1072		
GI Descrip.	(AF146269) resistance gene analog PIC22 [Oryza sativa]		

Seq. No.	54700	Seq. ID	OJ000302_19.0417.C15
Gene No.	114693	Strand	-
Start	107	End	1834
Name	OJ000302_19.0417.C15.o1.ts	Method	TBLASTX:Soybean
Start	530	End	1063
GI	none	Score	49
Exons	530..619, 561..620, 638..910, 723..857, 974..1063		

Seq. No.	54701	Seq. ID	OJ000302_19.0417.C16
Gene No.	114694	Strand	+
Start	3396	End	4765
Name	OJ000302_19.0417.C16.o1.gs	Method	GENSCAN
Start	3396	End	4736
GI	none	Score	.66
Exons	3396..4736		

Seq. No.	54701	Seq. ID	OJ000302_19.0417.C16
Gene No.	114694	Strand	+
Start	3396	End	4765
Name	OJ000302_19.0417.C16.o1.np	Method	AAT/NAP
Start	4047	End	4765
GI	7489501	Score	244
Exons	4047..4765		
GI Descrip.	NBS-LRR type resistance protein - rice (fragment) gi|2792220|gb|AAB96985.1| (AF032688) NBS-LRR type resistance protein [Oryza sativa]		

Seq. No.	54702	Seq. ID	OJ000302_19.0417.C17
Gene No.	114695	Strand	+
Start	1	End	2898
Name	OJ000302_19.0417.C17.o1.np	Method	AAT/NAP
Start	1	End	1236
GI	6606266	Score	395
Exons	1..1236		
GI Descrip.	(AF158634) Vrga1 [Triticum ventricosum]		

Seq. No.	54702	Seq. ID	OJ000302_19.0417.C17
Gene No.	114695	Strand	+
Start	1	End	2898
Name	OJ000302_19.0417.C17.o1.gs	Method	GENSCAN
Start	69	End	2898
GI	none	Score	.83
Exons	69..1554, 2722..2898		

Seq. No.	54702	Seq. ID	OJ000302_19.0417.C17
Gene No.	114695	Strand	+
Start	1	End	2898
Name	OJ000302_19.0417.C17.o1.ts	Method	TBLASTX:Soybean
Start	333	End	787
GI	none	Score	102
Exons	333..485, 365..487, 495..539, 569..787, 576..782		

Seq. No.	54702	Seq. ID	OJ000302_19.0417.C17
Gene No.	114695	Strand	+
Start	1	End	2898
Name	OJ000302_19.0417.C17.o1.tm	Method	TBLASTX:Maize
Start	417	End	938
GI	none	Score	47
Exons	417..473, 540..779, 822..938		

Seq. No.	54703	Seq. ID	OJ000302_19.0417.C18
Gene No.	114696	Strand	+
Start	5671	End	8975
Name	OJ000302_19.0417.C18.o1.np	Method	AAT/NAP
Start	5671	End	7731
GI	6069646	Score	989
Exons	5671..6460, 6743..7731		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	54703	Seq. ID	OJ000302_19.0417.C18
Gene No.	114696	Strand	+
Start	5671	End	8975
Name	OJ000302_19.0417.C18.o2.np	Method	AAT/NAP
Start	7441	End	8975
GI	4680186	Score	153
Exons	7441..7548, 8824..8975		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	54703	Seq. ID	OJ000302_19.0417.C18
Gene No.	114697	Strand	+
Start	26384	End	32788
Name	OJ000302_19.0417.C18.o3.np	Method	AAT/NAP
Start	26361	End	32788
GI	4581139	Score	1759
Exons	26361..26772, 27112..27232, 29437..29519, 30342..30426, 30510..30800, 31078..31168, 31903..32788		
GI Descrip.	(AC006919) putative ABC transporter [Arabidopsis thaliana]		

Seq. No.	54703	Seq. ID	OJ000302_19.0417.C18
Gene No.	114697	Strand	+
Start	26384	End	32788
Name	OJ000302_19.0417.C18.o6.gs	Method	GENSCAN
Start	26384	End	32723
GI	none	Score	.8
Exons	26384..26772, 27112..27232, 28774..28956, 29437..29519, 29758..29794, 30510..30800, 31078..31168, 31903..32723		

Seq. No.	54703	Seq. ID	OJ000302_19.0417.C18
Gene No.	114698	Strand	-
Start	15245	End	17605
Name	OJ000302_19.0417.C18.o8.tm	Method	TBLASTX:Maize
Start	4587	End	4832
GI	none	Score	137
Exons	4587..4724, 4728..4832		

Seq. No.	54703	Seq. ID	OJ000302_19.0417.C18
Gene No.	114698	Strand	-
Start	15245	End	17605
Name	OJ000302_19.0417.C18.o4.tm	Method	TBLASTX:Maize
Start	5043	End	5475
GI	none	Score	251
Exons	5043..5327, 5085..5213, 5201..5323, 5326..5475		

Seq. No.	54703	Seq. ID	OJ000302_19.0417.C18
Gene No.	114698	Strand	-
Start	15245	End	17605
Name	OJ000302_19.0417.C18.o4.tw	Method	TBLASTX:Wheat
Start	5554	End	14948
GI	none	Score	96
Exons	5554..5694, 5683..5889, 14814..14948		

Seq. No.	54703	Seq. ID	OJ000302_19.0417.C18
Gene No.	114698	Strand	-
Start	15245	End	17605
Name	OJ000302_19.0417.C18.o2.tm	Method	TBLASTX:Maize
Start	5635	End	6000
GI	none	Score	385
Exons	5635..6000, 5644..5970, 5646..5993		

Seq. No.	54703	Seq. ID	OJ000302_19.0417.C18
Gene No.	114698	Strand	-
Start	15245	End	17605
Name	OJ000302_19.0417.C18.o1.tm	Method	TBLASTX:Maize
Start	6001	End	6675
GI	none	Score	468
Exons	6001..6675, 6039..6143, 6222..6326, 6402..6560		

Seq. No.	54703	Seq. ID	OJ000302_19.0417.C18
Gene No.	114698	Strand	-
Start	15245	End	17605
Name	OJ000302_19.0417.C18.o3.ts	Method	TBLASTX:Soybean
Start	6295	End	6834
GI	none	Score	178
Exons	6295..6645, 6652..6675, 6706..6834		

Seq. No.	54703	Seq. ID	OJ000302_19.0417.C18
Gene No.	114698	Strand	-
Start	15245	End	17605
Name	OJ000302_19.0417.C18.o1.tw	Method	TBLASTX:Wheat
Start	6316	End	6756
GI	none	Score	252
Exons	6316..6618, 6318..6608, 6598..6756, 6670..6726		

Seq. No.	54703	Seq. ID	OJ000302_19.0417.C18
Gene No.	114698	Strand	-
Start	15245	End	17605
Name	OJ000302_19.0417.C18.o7.tm	Method	TBLASTX:Maize
Start	6687	End	6912
GI	none	Score	228
Exons	6687..6911, 6688..6912		

Seq. No.	54703	Seq. ID	OJ000302_19.0417.C18

Gene No.	114698	Strand	-
Start	15245	End	17605
Name	OJ000302_19.0417.C18.o2.tw	Method	TBLASTX:Wheat
Start	6916	End	7305
GI	none	Score	95
Exons	6916..7095, 7143..7286, 7144..7305		

Seq. No.	54703	Seq. ID	OJ000302_19.0417.C18
Gene No.	114698	Strand	-
Start	15245	End	17605
Name	OJ000302_19.0417.C18.o3.tm	Method	TBLASTX:Maize
Start	7244	End	7524
GI	none	Score	68
Exons	7244..7369, 7245..7442, 7249..7524		

Seq. No.	54703	Seq. ID	OJ000302_19.0417.C18
Gene No.	114698	Strand	-
Start	15245	End	17605
Name	OJ000302_19.0417.C18.o3.tw	Method	TBLASTX:Wheat
Start	7312	End	7713
GI	none	Score	118
Exons	7312..7461, 7540..7713		

Seq. No.	54703	Seq. ID	OJ000302_19.0417.C18
Gene No.	114698	Strand	-
Start	15245	End	17605
Name	OJ000302_19.0417.C18.o4.gs	Method	GENSCAN
Start	15245	End	17605
GI	none	Score	.44
Exons	15245..16140, 16305..16415, 16686..16993, 17298..17605		

Seq. No.	54703	Seq. ID	OJ000302_19.0417.C18
Gene No.	114699	Strand	
Start	31080	End	32498
Name	OJ000302_19.0417.C18.o5.tm	Method	TBLASTX:Maize
Start	31080	End	32123
GI	none	Score	128
Exons	31080..31169, 31081..31170, 31901..32122, 31902..32123		

Seq. No.	54703	Seq. ID	OJ000302_19.0417.C18
Gene No.	114699	Strand	
Start	31080	End	32498
Name	OJ000302_19.0417.C18.o1.tc	Method	TBLASTX:Cress
Start	32021	End	32330
GI	none	Score	388
Exons	32021..32311, 32022..32330, 32028..32318		

Seq. No.	54703	Seq. ID	OJ000302_19.0417.C18
Gene No.	114699	Strand	
Start	31080	End	32498
Name	OJ000302_19.0417.C18.o1.ts	Method	TBLASTX:Soybean
Start	32054	End	32498
GI	none	Score	495
Exons	32054..32236, 32055..32498, 32073..32390, 32270..32476		

Seq. No.	54703	Seq. ID	OJ000302_19.0417.C18
Gene No.	114700	Strand	

Start	32429	End	32788
Name	OJ000302_19.0417.C18.o2.tc	Method	TBLASTX:Cress
Start	32429	End	32768
GI	none	Score	322
Exons	32429..32767, 32430..32768		

Seq. No.	54703	Seq. ID	OJ000302_19.0417.C18
Gene No.	114700	Strand	
Start	32429	End	32788
Name	OJ000302_19.0417.C18.o2.ts	Method	TBLASTX:Soybean
Start	32513	End	32786
GI	none	Score	193
Exons	32513..32698, 32514..32699, 32703..32786		

Seq. No.	54703	Seq. ID	OJ000302_19.0417.C18
Gene No.	114700	Strand	
Start	32429	End	32788
Name	OJ000302_19.0417.C18.o6.tm	Method	TBLASTX:Maize
Start	32621	End	32788
GI	none	Score	246
Exons	32621..32788, 32622..32786		

Seq. No.	54704	Seq. ID	OJ000302_19.0417.C19
Gene No.	114701	Strand	+
Start	303	End	2440
Name	OJ000302_19.0417.C19.o1.tm	Method	TBLASTX:Maize
Start	276	End	2083
GI	none	Score	60
Exons	276..383, 276..389, 277..384, 1025..1345, 1026..1367, 1027..1368, 1950..2081, 1975..2082, 1978..2073, 1979..2083, 2010..2081, 2036..2083		

Seq. No.	54704	Seq. ID	OJ000302_19.0417.C19
Gene No.	114701	Strand	+
Start	303	End	2440
Name	OJ000302_19.0417.C19.o1.np	Method	AAT/NAP
Start	303	End	2440
GI	4581139	Score	952
Exons	303..384, 1027..1359, 1977..2267, 2358..2440		
GI Descrip.	(AC006919) putative ABC transporter [Arabidopsis thaliana]		

Seq. No.	54704	Seq. ID	OJ000302_19.0417.C19
Gene No.	114701	Strand	+
Start	303	End	2440
Name	OJ000302_19.0417.C19.o1.tc	Method	TBLASTX:Cress
Start	304	End	2176
GI	none	Score	92
Exons	304..381, 996..1367, 1026..1340, 1027..1368, 1977..2171, 2010..2144, 2036..2176		

Seq. No.	54704	Seq. ID	OJ000302_19.0417.C19
Gene No.	114701	Strand	+
Start	303	End	2440
Name	OJ000302_19.0417.C19.o1.ts	Method	TBLASTX:Soybean
Start	307	End	2408
GI	none	Score	80
Exons	307..381, 996..1358, 1025..1360, 1027..1368, 1977..2267,		

2010..2141, 2036..2278, 2349..2408

Seq. No.	54704	Seq. ID	OJ000302_19.0417.C19
Gene No.	114701	Strand	+
Start	303	End	2440
Name	OJ000302_19.0417.C19.o1.gs	Method	GENSCAN
Start	376	End	2324
GI	none	Score	.9
Exons	376..384, 1027..1359, 1977..2324		

Seq. No.	54704	Seq. ID	OJ000302_19.0417.C19
Gene No.	114701	Strand	+
Start	303	End	2440
Name	OJ000302_19.0417.C19.o1.tw	Method	TBLASTX:Wheat
Start	2138	End	2439
GI	none	Score	107
Exons	2138..2266, 2139..2267, 2199..2267, 2349..2408, 2363..2413, 2413..2439		

Seq. No.	54705	Seq. ID	OJ000302_19.0417.C20
Gene No.	114702	Strand	+
Start	1	End	3274
Name	OJ000302_19.0417.C20.o1.np	Method	AAT/NAP
Start	1	End	1390
GI	4581139	Score	638
Exons	1..190, 779..1029, 1121..1390		
GI Descrip.	(AC006919) putative ABC transporter [Arabidopsis thaliana]		

Seq. No.	54705	Seq. ID	OJ000302_19.0417.C20
Gene No.	114702	Strand	+
Start	1	End	3274
Name	OJ000302_19.0417.C20.o1.gs	Method	GENSCAN
Start	7	End	3274
GI	none	Score	.44
Exons	7..186, 1121..1389, 2881..3039, 3106..3274		

Seq. No.	54705	Seq. ID	OJ000302_19.0417.C20
Gene No.	114703	Strand	+
Start	3997	End	6591
Name	OJ000302_19.0417.C20.o2.np	Method	AAT/NAP
Start	3997	End	6591
GI	2388577	Score	1295
Exons	3997..4130, 4751..4935, 5434..6591		
GI Descrip.	(AC000098) Similar to Arabidopsis putative ion-channel PID:g2262157 (gb|AC002329). [Arabidopsis thaliana]		

Seq. No.	54705	Seq. ID	OJ000302_19.0417.C20
Gene No.	114703	Strand	+
Start	3997	End	6591
Name	OJ000302_19.0417.C20.o3.gs	Method	GENSCAN
Start	4653	End	6516
GI	none	Score	.67
Exons	4653..4935, 5434..6516		

Seq. No.	54705	Seq. ID	OJ000302_19.0417.C20
Gene No.	114703	Strand	+
Start	3997	End	6591

Name	OJ000302_19.0417.C20.o2.gp	Method	AAT/GAP
Start	5717	End	5914
GI	none	Score	328
Exons	5717..5914		

Seq. No.	54705	Seq. ID	OJ000302_19.0417.C20
Gene No.	114704	Strand	-
Start	1224	End	1569
Name	OJ000302_19.0417.C20.o1.gp	Method	AAT/GAP
Start	1224	End	1569
GI	none	Score	629
Exons	1224..1569		

Seq. No.	54705	Seq. ID	OJ000302_19.0417.C20
Gene No.	114705	Strand	-
Start	3981	End	4556
Name	OJ000302_19.0417.C20.o4.tm	Method	TBLASTX:Maize
Start	12	End	855
GI	none	Score	161
Exons	12..182, 16..213, 18..212, 41..223, 714..854, 765..854, 781..855		

Seq. No.	54705	Seq. ID	OJ000302_19.0417.C20
Gene No.	114705	Strand	-
Start	3981	End	4556
Name	OJ000302_19.0417.C20.o2.tc	Method	TBLASTX:Cress
Start	13	End	1459
GI	none	Score	195
Exons	13..228, 27..206, 772..936, 784..1029, 1124..1393, 1133..1459		

Seq. No.	54705	Seq. ID	OJ000302_19.0417.C20
Gene No.	114705	Strand	-
Start	3981	End	4556
Name	OJ000302_19.0417.C20.o2.ts	Method	TBLASTX:Soybean
Start	13	End	1434
GI	none	Score	198
Exons	13..207, 27..203, 769..1029, 1123..1209, 1124..1207, 1133..1201, 1243..1434, 1250..1393		

Seq. No.	54705	Seq. ID	OJ000302_19.0417.C20
Gene No.	114705	Strand	-
Start	3981	End	4556
Name	OJ000302_19.0417.C20.o1.tw	Method	TBLASTX:Wheat
Start	154	End	1216
GI	none	Score	61
Exons	154..213, 769..1032, 772..1014, 924..1061, 1120..1209, 1121..1210, 1121..1216, 1123..1212		

Seq. No.	54705	Seq. ID	OJ000302_19.0417.C20
Gene No.	114705	Strand	-
Start	3981	End	4556
Name	OJ000302_19.0417.C20.o1.tm	Method	TBLASTX:Maize
Start	857	End	1398
GI	none	Score	135
Exons	857..1024, 859..1029, 862..1026, 927..1028, 1121..1396, 1124..1396, 1128..1397, 1288..1398		

Seq. No.	54705	Seq. ID	OJ000302_19.0417.C20

Gene No.	114705	Strand	-
Start	3981	End	4556
Name	OJ000302_19.0417.C20.o2.tw	Method	TBLASTX:Wheat
Start	1249	End	1396
GI	none	Score	192
Exons	1249..1317, 1250..1396, 1250..1393		

Seq. No.	54705	Seq. ID	OJ000302_19.0417.C20
Gene No.	114705	Strand	-
Start	3981	End	4556
Name	OJ000302_19.0417.C20.o2.gs	Method	GENSCAN
Start	3981	End	4556
GI	none	Score	.99
Exons	3981..4202, 4324..4470, 4530..4556		

Seq. No.	54705	Seq. ID	OJ000302_19.0417.C20
Gene No.	114706	Strand	
Start	4737	End	6587
Name	OJ000302_19.0417.C20.o1.tc	Method	TBLASTX:Cress
Start	4737	End	6587
GI	none	Score	127
Exons	4737..4931, 5421..5726, 5432..5650, 5436..5726, 5784..5981, 5801..5962, 5808..5963, 5991..6587, 6401..6586		

Seq. No.	54705	Seq. ID	OJ000302_19.0417.C20
Gene No.	114706	Strand	
Start	4737	End	6587
Name	OJ000302_19.0417.C20.o5.tm	Method	TBLASTX:Maize
Start	4754	End	5533
GI	none	Score	205
Exons	4754..4933, 4755..4934, 4758..4934, 5429..5533, 5433..5531		

Seq. No.	54705	Seq. ID	OJ000302_19.0417.C20
Gene No.	114706	Strand	
Start	4737	End	6587
Name	OJ000302_19.0417.C20.o1.ts	Method	TBLASTX:Soybean
Start	5436	End	5993
GI	none	Score	467
Exons	5436..5993, 5447..5653, 5493..5726, 5714..5959		

Seq. No.	54705	Seq. ID	OJ000302_19.0417.C20
Gene No.	114706	Strand	
Start	4737	End	6587
Name	OJ000302_19.0417.C20.o3.tm	Method	TBLASTX:Maize
Start	5631	End	5921
GI	none	Score	122
Exons	5631..5723, 5769..5921		

Seq. No.	54705	Seq. ID	OJ000302_19.0417.C20
Gene No.	114706	Strand	
Start	4737	End	6587
Name	OJ000302_19.0417.C20.o3.ts	Method	TBLASTX:Soybean
Start	6000	End	6398
GI	none	Score	68
Exons	6000..6083, 6002..6073, 6090..6398, 6125..6391		

Seq. No.	54705	Seq. ID	OJ000302_19.0417.C20

Gene No.	114706	Strand	
Start	4737	End	6587
Name	OJ000302_19.0417.C20.o2.tm	Method	TBLASTX:Maize
Start	6012	End	6347
GI	none	Score	67
Exons	6012..6086, 6096..6347, 6099..6182, 6125..6340		

Seq. No.	54705	Seq. ID	OJ000302_19.0417.C20
Gene No.	114706	Strand	
Start	4737	End	6587
Name	OJ000302_19.0417.C20.o4.ts	Method	TBLASTX:Soybean
Start	6402	End	6587
GI	none	Score	195
Exons	6402..6587, 6404..6586		

Seq. No.	54706	Seq. ID	OJ000302_19.0417.C21
Gene No.	114707	Strand	+
Start	1	End	1774
Name	OJ000302_19.0417.C21.o1.np	Method	AAT/NAP
Start	1	End	1477
GI	2388577	Score	980
Exons	1..301, 413..444, 531..931, 1054..1477		
GI Descrip.	(AC000098) Similar to Arabidopsis putative ion-channel PID:g2262157 (gb|AC002329). [Arabidopsis thaliana]		

Seq. No.	54706	Seq. ID	OJ000302_19.0417.C21
Gene No.	114707	Strand	+
Start	1	End	1774
Name	OJ000302_19.0417.C21.o3.tm	Method	TBLASTX:Maize
Start	5	End	667
GI	none	Score	201
Exons	5..352, 6..188, 240..302, 413..445, 414..476, 465..494, 493..639, 515..667, 518..649, 532..666		

Seq. No.	54706	Seq. ID	OJ000302_19.0417.C21
Gene No.	114707	Strand	+
Start	1	End	1774
Name	OJ000302_19.0417.C21.o2.ts	Method	TBLASTX:Soybean
Start	15	End	324
GI	none	Score	156
Exons	15..164, 26..163, 132..188, 143..322, 145..324, 240..302		

Seq. No.	54706	Seq. ID	OJ000302_19.0417.C21
Gene No.	114707	Strand	+
Start	1	End	1774
Name	OJ000302_19.0417.C21.o1.tc	Method	TBLASTX:Cress
Start	26	End	1416
GI	none	Score	292
Exons	26..352, 27..302, 408..452, 414..443, 515..838, 530..772, 532..807, 823..939, 823..936, 824..976, 824..937, 1023..1121, 1024..1143, 1173..1253, 1321..1416		

Seq. No.	54706	Seq. ID	OJ000302_19.0417.C21
Gene No.	114707	Strand	+
Start	1	End	1774
Name	OJ000302_19.0417.C21.o1.gs	Method	GENSCAN
Start	429	End	1470

GI	none	Score	.91
Exons	429..444, 531..937, 1024..1470		

Seq. No.	54706	Seq. ID	OJ000302_19.0417.C21
Gene No.	114707	Strand	+
Start	1	End	1774
Name	OJ000302_19.0417.C21.o1.ts	Method	TBLASTX:Soybean
Start	631	End	1284
GI	none	Score	292
Exons	631..735, 638..937, 784..936, 1023..1145, 1024..1146, 1165..1284		

Seq. No.	54706	Seq. ID	OJ000302_19.0417.C21
Gene No.	114707	Strand	+
Start	1	End	1774
Name	OJ000302_19.0417.C21.o1.tm	Method	TBLASTX:Maize
Start	668	End	1083
GI	none	Score	90
Exons	668..754, 670..753, 757..936, 758..937, 867..938, 868..939, 1023..1082, 1024..1083, 1024..1083		

Seq. No.	54706	Seq. ID	OJ000302_19.0417.C21
Gene No.	114707	Strand	+
Start	1	End	1774
Name	OJ000302_19.0417.C21.o2.tm	Method	TBLASTX:Maize
Start	1128	End	1469
GI	none	Score	113
Exons	1128..1358, 1128..1418, 1129..1464, 1422..1469		

Seq. No.	54706	Seq. ID	OJ000302_19.0417.C21
Gene No.	114707	Strand	+
Start	1	End	1774
Name	OJ000302_19.0417.C21.o1.gp	Method	AAT/GAP
Start	1224	End	1774
GI	none	Score	1071
Exons	1224..1774		

Seq. No.	54707	Seq. ID	OJ000322_18.0419.C1
Gene No.	114708	Strand	+
Start	1	End	548
Name	OJ000322_18.0419.C1.o1.np	Method	AAT/NAP
Start	1	End	548
GI	6815099	Score	87
Exons	1..51, 437..548		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	54707	Seq. ID	OJ000322_18.0419.C1
Gene No.	114709	Strand	+
Start	782	End	1304
Name	OJ000322_18.0419.C1.o2.np	Method	AAT/NAP
Start	782	End	1304
GI	7488320	Score	149
Exons	782..1304		
GI Descrip.	RNA-directed DNA polymerase homolog T14P8.10 - Arabidopsis thaliana gi|3193294|gb|AAC19278.1| (AF069298) similar to reverse transcriptases (Pfam: rvt.hmm, score: 53.76) [Arabidopsis thaliana] gi|7269009|emb|CAB80742.1| (AL161494) similarity to similar to reverse transcriptases (Pfam: rvt.hmm, score: 53.76)		

[Arabidopsis thaliana]

Seq. No.	54707	Seq. ID	OJ000322_18.0419.C1
Gene No.	114709	Strand	+
Start	782	End	1304
Name	OJ000322_18.0419.C1.o1.tm	Method	TBLASTX:Maize
Start	975	End	1290
GI	none	Score	188
Exons	975..1133, 1014..1121, 1145..1180, 1177..1290		

Seq. No.	54708	Seq. ID	OJ000322_18.0419.C2
Gene No.	114710	Strand	+
Start	100	End	320
Name	OJ000322_18.0419.C2.o1.gs	Method	GENSCAN
Start	100	End	320
GI	none	Score	.89
Exons	100..320		

Seq. No.	54708	Seq. ID	OJ000322_18.0419.C2
Gene No.	114711	Strand	+
Start	3570	End	7383
Name	OJ000322_18.0419.C2.o2.np	Method	AAT/NAP
Start	3570	End	7383
GI	6063554	Score	494
Exons	3570..3605, 5609..5887, 6004..6226, 6549..6576, 7209..7383		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	54708	Seq. ID	OJ000322_18.0419.C2
Gene No.	114711	Strand	+
Start	3570	End	7383
Name	OJ000322_18.0419.C2.o1.gp	Method	AAT/GAP
Start	6043	End	6779
GI	101153_1.R1084	Score	696
Exons	6043..6226, 6549..6779		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 1.0e-115 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	54708	Seq. ID	OJ000322_18.0419.C2
Gene No.	114711	Strand	+
Start	3570	End	7383
Name	OJ000322_18.0419.C2.o2.gp	Method	AAT/GAP
Start	6795	End	7223
GI	2428185	Score	636
Exons	6795..7223		
GI Descrip.	5852170/emb|AL117265.1|OST17804 1.0e-177 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804		

Seq. No.	54708	Seq. ID	OJ000322_18.0419.C2
Gene No.	114712	Strand	+
Start	8373	End	9487
Name	OJ000322_18.0419.C2.o3.np	Method	AAT/NAP
Start	8179	End	9291
GI	6063554	Score	248
Exons	8179..8463, 8576..8791, 9264..9291		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464)		

correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No.	54708	Seq. ID	OJ000322_18.0419.C2
Gene No.	114712	Strand	+
Start	8373	End	9487
Name	OJ000322_18.0419.C2.o4.gs	Method	GENSCAN
Start	8373	End	8981
GI	none	Score	.65
Exons	8373..8458, 8653..8791, 8955..8981		

Seq. No.	54708	Seq. ID	OJ000322_18.0419.C2
Gene No.	114712	Strand	+
Start	8373	End	9487
Name	OJ000322_18.0419.C2.o5.gp	Method	AAT/GAP
Start	8531	End	8755
GI	none	Score	395
Exons	8531..8755		

Seq. No.	54708	Seq. ID	OJ000322_18.0419.C2
Gene No.	114712	Strand	+
Start	8373	End	9487
Name	OJ000322_18.0419.C2.o6.gp	Method	AAT/GAP
Start	8758	End	9487
GI	101153_1.R1084	Score	420
Exons	8758..8783, 9259..9487		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 1.0e-115 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	54708	Seq. ID	OJ000322_18.0419.C2
Gene No.	114713	Strand	+
Start	10469	End	10726
Name	OJ000322_18.0419.C2.o7.gp	Method	AAT/GAP
Start	10469	End	10726
GI	61605_3.R1084	Score	396
Exons	10469..10726		
GI Descrip.	'1402920/emb|CAA66965| 2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	54708	Seq. ID	OJ000322_18.0419.C2
Gene No.	114714	Strand	+
Start	10732	End	10905
Name	OJ000322_18.0419.C2.o8.gp	Method	AAT/GAP
Start	10732	End	10905
GI	101153_1.R1084	Score	283
Exons	10732..10905		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 1.0e-115 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	54708	Seq. ID	OJ000322_18.0419.C2
Gene No.	114715	Strand	+
Start	12817	End	15707
Name	OJ000322_18.0419.C2.o6.np	Method	AAT/NAP
Start	12817	End	15707
GI	5852093	Score	71
Exons	12817..12866, 14190..14352, 15686..15707		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	54708	Seq. ID	OJ000322_18.0419.C2
Gene No.	114716	Strand	-
Start	1	End	15707
Name	OJ000322_18.0419.C2.o5.np	Method	AAT/NAP
Start	1	End	12092
GI	5852175	Score	109
Exons	1..54, 10909..11016, 11870..12092		
GI Descrip.	(AL117265) zhb0005.1 [Oryza sativa]		

Seq. No.	54708	Seq. ID	OJ000322_18.0419.C2
Gene No.	114716	Strand	-
Start	1	End	15707
Name	OJ000322_18.0419.C2.o2.gs	Method	GENSCAN
Start	2015	End	3883
GI	none	Score	.97
Exons	2015..3332, 3801..3883		

Seq. No.	54708	Seq. ID	OJ000322_18.0419.C2
Gene No.	114716	Strand	-
Start	1	End	15707
Name	OJ000322_18.0419.C2.o3.gs	Method	GENSCAN
Start	5932	End	7188
GI	none	Score	.93
Exons	5932..6317, 7110..7188		

Seq. No.	54708	Seq. ID	OJ000322_18.0419.C2
Gene No.	114716	Strand	-
Start	1	End	15707
Name	OJ000322_18.0419.C2.o4.np	Method	AAT/NAP
Start	8571	End	15707
GI	5852180	Score	288
Exons	8571..8944, 10113..10265, 15664..15707		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	54708	Seq. ID	OJ000322_18.0419.C2
Gene No.	114716	Strand	-
Start	1	End	15707
Name	OJ000322_18.0419.C2.o5.gs	Method	GENSCAN
Start	9235	End	12936
GI	none	Score	.5
Exons	9235..9360, 9806..9918, 10161..10265, 10988..11017, 11551..11589, 11910..12114, 12358..12504, 12880..12936		

Seq. No.	54709	Seq. ID	OJ000322_18.0419.C3
Gene No.	114717	Strand	+
Start	189	End	847
Name	OJ000322_18.0419.C3.o1.gs	Method	GENSCAN
Start	189	End	847
GI	none	Score	.49
Exons	189..246, 732..847		

Seq. No.	54710	Seq. ID	OJ000322_18.0419.C4
Gene No.	114718	Strand	+
Start	195	End	787
Name	OJ000322_18.0419.C4.o1.gs	Method	GENSCAN
Start	195	End	787

GI	none	Score	.65
Exons	195..374, 415..485, 725..787		

Seq. No.	54710	Seq. ID	OJ000322_18.0419.C4
Gene No.	114719	Strand	+
Start	5041	End	6228
Name	OJ000322_18.0419.C4.o3.gs	Method	GENSCAN
Start	5041	End	6228
GI	none	Score	.98
Exons	5041..6228		

Seq. No.	54710	Seq. ID	OJ000322_18.0419.C4
Gene No.	114720	Strand	+
Start	8037	End	11373
Name	OJ000322_18.0419.C4.o4.gs	Method	GENSCAN
Start	8037	End	10656
GI	none	Score	.61
Exons	8037..8043, 8835..8857, 9067..9196, 9216..9629, 9674..9807, 10123..10656		

Seq. No.	54710	Seq. ID	OJ000322_18.0419.C4
Gene No.	114720	Strand	+
Start	8037	End	11373
Name	OJ000322_18.0419.C4.o1.gp	Method	AAT/GAP
Start	10250	End	10640
GI	uC-osrocyp033e03b1	Score	743
Exons	10250..10640		
GI Descrip.	'1172042/sp|Q09687|PCM1_SCHPO 3.0e-17 PUTATIVE PHOSPHOACETYLGLUCOSAMINE MUTASE (ACETYLGLUCOSAMINE PHOSPHOMUTASE) (N-ACETYLGLUCOSAMINE-PHOSPHATE MUTASE) >gi_2130266_pir__S59642 hypothetical protein SPAC13C5.05c - fission yeast (Schizosaccharomyces pombe) >gi_908894_emb_CAA90456_ (Z50112) phosphomannomutase phosphoserine [Schizosaccharomyces pombe]'		

Seq. No.	54710	Seq. ID	OJ000322_18.0419.C4
Gene No.	114720	Strand	+
Start	8037	End	11373
Name	OJ000322_18.0419.C4.o1.np	Method	AAT/NAP
Start	10381	End	11373
GI	1172042	Score	220
Exons	10381..10652, 11340..11373		
GI Descrip.	PUTATIVE PHOSPHOACETYLGLUCOSAMINE MUTASE (ACETYLGLUCOSAMINE PHOSPHOMUTASE) (N-ACETYLGLUCOSAMINE-PHOSPHATE MUTASE) gi|2130266|pir||S59642 hypothetical protein SPAC13C5.05c - fission yeast (Schizosaccharomyces pombe) gi|7492220|pir||T37618 n-acetylglucosamine-phosphate mutase - fission yeast (Schizosaccharomyces pombe) gi|908894|emb|CAA90456.1| (Z50112) n-acetylgluco		

Seq. No.	54710	Seq. ID	OJ000322_18.0419.C4
Gene No.	114721	Strand	-
Start	1197	End	3191
Name	OJ000322_18.0419.C4.o2.gs	Method	GENSCAN
Start	1197	End	3191
GI	none	Score	.97
Exons	1197..3191		

Seq. No.	54710	Seq. ID	OJ000322_18.0419.C4
Gene No.	114722	Strand	
Start	10377	End	10611
Name	OJ000322_18.0419.C4.o1.tc	Method	TBLASTX:Cress
Start	10377	End	10611
GI	none	Score	232
Exons	10377..10592, 10390..10611		

Seq. No.	54710	Seq. ID	OJ000322_18.0419.C4
Gene No.	114722	Strand	
Start	10377	End	10611
Name	OJ000322_18.0419.C4.o1.tw	Method	TBLASTX:Wheat
Start	10377	End	10593
GI	none	Score	303
Exons	10377..10592, 10387..10593		

Seq. No.	54711	Seq. ID	OJ000322_18.0419.C5
Gene No.	114723	Strand	+
Start	295	End	2225
Name	OJ000322_18.0419.C5.o1.gs	Method	GENSCAN
Start	295	End	2213
GI	none	Score	.83
Exons	295..414, 750..985, 1066..1457, 1592..1767, 1871..1967, 2071..2213		

Seq. No.	54711	Seq. ID	OJ000322_18.0419.C5
Gene No.	114723	Strand	+
Start	295	End	2225
Name	OJ000322_18.0419.C5.o1.np	Method	AAT/NAP
Start	342	End	2225
GI	3851711	Score	554
Exons	342..414, 509..651, 737..963, 1047..1223, 1251..1481, 1607..1767, 1871..1967, 2071..2225		
GI Descrip.	(AF102265) N-acetylglucosamine-phosphate mutase [Homo sapiens] gi|5881254|gb|AAD55097.1| (AF180371) N-acetylglucosamine-phosphate mutase [Homo sapiens]		

Seq. No.	54711	Seq. ID	OJ000322_18.0419.C5
Gene No.	114723	Strand	+
Start	295	End	2225
Name	OJ000322_18.0419.C5.o1.gp	Method	AAT/GAP
Start	572	End	1140
GI	none	Score	858
Exons	572..985, 1066..1140		

Seq. No.	54711	Seq. ID	OJ000322_18.0419.C5
Gene No.	114723	Strand	+
Start	295	End	2225
Name	OJ000322_18.0419.C5.o1.tc	Method	TBLASTX:Cress
Start	734	End	2210
GI	none	Score	236
Exons	734..835, 735..965, 884..973, 1124..1225, 1138..1194, 1268..1420, 1269..1409, 1270..1461, 1271..1483, 1590..1778, 1591..1779, 1591..1782, 1868..1972, 1870..1998, 2073..2210, 2076..2210		

Seq. No.	54711	Seq. ID	OJ000322_18.0419.C5
Gene No.	114723	Strand	+
Start	295	End	2225
Name	OJ000322_18.0419.C5.o1.ts	Method	TBLASTX:Soybean
Start	896	End	1710
GI	none	Score	105
Exons	896..1021, 897..995, 1043..1231, 1063..1230, 1249..1470, 1252..1287, 1253..1468, 1318..1473, 1569..1709, 1590..1709, 1591..1710		

Seq. No.	54711	Seq. ID	OJ000322_18.0419.C5
Gene No.	114723	Strand	+
Start	295	End	2225
Name	OJ000322_18.0419.C5.o2.gp	Method	AAT/GAP
Start	1662	End	2225
GI	LIB3475-011-P1-K1-A5	Score	651
Exons	1662..1767, 1871..1967, 2071..2225		
GI Descrip.	'1169198/sp|Q05211|D101_ARATH 5.0e-32 DNA-DAMAGE-REPAIR/TOLERATION PROTEIN DRT101 PRECURSOR >gi_479738_pir__S35270 hypothetical protein - Arabidopsis thaliana >gi_166926 (L11367) [Arabidopsis thaliana unidentified mRNA sequence, complete cds.], gene product [Arabidopsis thaliana]'		

Seq. No.	54711	Seq. ID	OJ000322_18.0419.C5
Gene No.	114723	Strand	+
Start	295	End	2225
Name	OJ000322_18.0419.C5.o2.ts	Method	TBLASTX:Soybean
Start	1732	End	2210
GI	none	Score	52
Exons	1732..1770, 1865..1957, 1868..1972, 1870..1971, 2070..2198, 2084..2209, 2085..2210		

Seq. No.	54711	Seq. ID	OJ000322_18.0419.C5
Gene No.	114723	Strand	+
Start	295	End	2225
Name	OJ000322_18.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	1895	End	2214
GI	none	Score	81
Exons	1895..1963, 1895..1963, 1897..1965, 2070..2213, 2077..2214, 2084..2212, 2086..2214		

Seq. No.	54712	Seq. ID	OJ000322_18.0419.C6
Gene No.	114724	Strand	-
Start	1079	End	1177
Name	OJ000322_18.0419.C6.o1.gs	Method	GENSCAN
Start	1079	End	1177
GI	none	Score	.89
Exons	1079..1177		

Seq. No.	54713	Seq. ID	OJ000322_18.0419.C7
Gene No.	114725	Strand	+
Start	2135	End	10786
Name	OJ000322_18.0419.C7.o2.gs	Method	GENSCAN
Start	2135	End	10620
GI	none	Score	.81
Exons	2135..2139, 3327..3448, 3622..3723, 3906..4052, 4436..4583,		

7059..7895, 8057..8105, 8741..9016, 9121..9408, 9487..9615, 9740..9913, 10513..10620

Seq. No.	54713	Seq. ID	OJ000322_18.0419.C7
Gene No.	114725	Strand	+
Start	2135	End	10786
Name	OJ000322_18.0419.C7.o1.np	Method	AAT/NAP
Start	7408	End	10786
GI	5882743	Score	1449
Exons	7408..7644, 7672..7895, 8784..9016, 9121..9408, 9487..9615, 9740..9913, 10513..10620, 10702..10786		
GI Descrip.	(AC008263) ESTs gb|H36134 and gb|H36132 come from this gene. [Arabidopsis thaliana]		

Seq. No.	54713	Seq. ID	OJ000322_18.0419.C7
Gene No.	114726	Strand	-
Start	376	End	638
Name	OJ000322_18.0419.C7.o1.gs	Method	GENSCAN
Start	376	End	638
GI	none	Score	.56
Exons	376..412, 472..638		

Seq. No.	54713	Seq. ID	OJ000322_18.0419.C7
Gene No.	114727	Strand	
Start	7531	End	10779
Name	OJ000322_18.0419.C7.o1.ts	Method	TBLASTX:Soybean
Start	7531	End	9203
GI	none	Score	380
Exons	7531..7899, 7580..7894, 8780..9016, 8782..9015, 8882..9031, 8904..9032, 9114..9203, 9121..9201		

Seq. No.	54713	Seq. ID	OJ000322_18.0419.C7
Gene No.	114727	Strand	
Start	7531	End	10779
Name	OJ000322_18.0419.C7.o2.tm	Method	TBLASTX:Maize
Start	7708	End	7927
GI	none	Score	277
Exons	7708..7881, 7709..7882, 7865..7927		

Seq. No.	54713	Seq. ID	OJ000322_18.0419.C7
Gene No.	114727	Strand	
Start	7531	End	10779
Name	OJ000322_18.0419.C7.o2.tc	Method	TBLASTX:Cress
Start	8796	End	9159
GI	none	Score	36
Exons	8796..8819, 8798..9016, 8798..8818, 8799..8834, 8863..9015, 8904..9017, 8922..9017, 9133..9159		

Seq. No.	54713	Seq. ID	OJ000322_18.0419.C7
Gene No.	114727	Strand	
Start	7531	End	10779
Name	OJ000322_18.0419.C7.o1.tw	Method	TBLASTX:Wheat
Start	8849	End	9273
GI	none	Score	41
Exons	8849..8902, 8882..9016, 8908..9015, 9114..9272, 9121..9273		

Seq. No.	54713	Seq. ID	OJ000322_18.0419.C7

Gene No.	114727	Strand	
Start	7531	End	10779
Name	OJ000322_18.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	8858	End	10727
GI	none	Score	195
Exons	8858..9013, 8863..9012, 9114..9356, 9121..9357, 9127..9357, 9366..9404, 9370..9408, 9483..9617, 9487..9627, 9499..9615, 9534..9617, 9740..9913, 9754..9807, 9761..9913, 9835..9915, 10510..10623, 10512..10613, 10704..10727, 10706..10726		

Seq. No.	54713	Seq. ID	OJ000322_18.0419.C7
Gene No.	114727	Strand	
Start	7531	End	10779
Name	OJ000322_18.0419.C7.o3.ts	Method	TBLASTX:Soybean
Start	9204	End	9363
GI	none	Score	202
Exons	9204..9356, 9205..9363		

Seq. No.	54713	Seq. ID	OJ000322_18.0419.C7
Gene No.	114727	Strand	
Start	7531	End	10779
Name	OJ000322_18.0419.C7.o1.tc	Method	TBLASTX:Cress
Start	9370	End	10605
GI	none	Score	47
Exons	9370..9408, 9372..9428, 9482..9616, 9487..9621, 9523..9618, 9739..9915, 9740..9913, 9740..9916, 10507..10605		

Seq. No.	54713	Seq. ID	OJ000322_18.0419.C7
Gene No.	114727	Strand	
Start	7531	End	10779
Name	OJ000322_18.0419.C7.o2.ts	Method	TBLASTX:Soybean
Start	9370	End	9808
GI	none	Score	44
Exons	9370..9408, 9487..9618, 9496..9618, 9740..9808		

Seq. No.	54713	Seq. ID	OJ000322_18.0419.C7
Gene No.	114727	Strand	
Start	7531	End	10779
Name	OJ000322_18.0419.C7.o4.ts	Method	TBLASTX:Soybean
Start	9809	End	10779
GI	none	Score	110
Exons	9809..9913, 10506..10595, 10507..10623, 10699..10779, 10701..10769		

Seq. No.	54714	Seq. ID	OJ000322_18.0419.C8
Gene No.	114728	Strand	+
Start	10029	End	12871
Name	OJ000322_18.0419.C8.o5.gs	Method	GENSCAN
Start	10029	End	12871
GI	none	Score	.68
Exons	10029..10262, 10286..10453, 10998..11121, 11575..11750, 11995..12258, 12791..12871		

Seq. No.	54714	Seq. ID	OJ000322_18.0419.C8
Gene No.	114728	Strand	+
Start	10029	End	12871
Name	OJ000322_18.0419.C8.o1.gp	Method	AAT/GAP

Start	10039	End	11657
GI	LIB3434-025-P1-K1-C2	Score	845
Exons	10039..10262, 10349..10453, 11413..11470, 11575..11657		
GI Descrip.	'2435511 4.0e-29 (AF024504) contains similarity to prolyl 4-hydroxylase alpha subunit [Arabidopsis thaliana]'		

Seq. No.	54714	Seq. ID	OJ000322_18.0419.C8
Gene No.	114728	Strand	+
Start	10029	End	12871
Name	OJ000322_18.0419.C8.o2.np	Method	AAT/NAP
Start	10062	End	12309
GI	6437556	Score	701
Exons	10062..10262, 10349..10453, 11413..11470, 11575..11757, 12011..12309		
GI Descrip.	(AC011623) unknown protein [Arabidopsis thaliana]		

Seq. No.	54714	Seq. ID	OJ000322_18.0419.C8
Gene No.	114729	Strand	+
Start	13591	End	13859
Name	OJ000322_18.0419.C8.o6.gs	Method	GENSCAN
Start	13591	End	13859
GI	none	Score	.8
Exons	13591..13859		

Seq. No.	54714	Seq. ID	OJ000322_18.0419.C8
Gene No.	114730	Strand	-
Start	2316	End	14625
Name	OJ000322_18.0419.C8.o2.gs	Method	GENSCAN
Start	2316	End	3349
GI	none	Score	.67
Exons	2316..2362, 2492..2590, 2766..2855, 2906..2990, 3182..3223, 3272..3349		

Seq. No.	54714	Seq. ID	OJ000322_18.0419.C8
Gene No.	114730	Strand	-
Start	2316	End	14625
Name	OJ000322_18.0419.C8.o1.np	Method	AAT/NAP
Start	3028	End	14625
GI	7486314	Score	50
Exons	3028..3258, 8094..8172, 14574..14625		
GI Descrip.	hypothetical protein F28M11.70 - Arabidopsis thaliana gi|4538979|emb|CAB39767.1| (AL049487) putative protein [Arabidopsis thaliana] gi|7267711|emb|CAB78138.1| (AL161516) putative protein [Arabidopsis thaliana]		

Seq. No.	54714	Seq. ID	OJ000322_18.0419.C8
Gene No.	114730	Strand	-
Start	2316	End	14625
Name	OJ000322_18.0419.C8.o3.gs	Method	GENSCAN
Start	4995	End	5593
GI	none	Score	.49
Exons	4995..5062, 5213..5370, 5505..5593		

Seq. No.	54714	Seq. ID	OJ000322_18.0419.C8
Gene No.	114730	Strand	-
Start	2316	End	14625
Name	OJ000322_18.0419.C8.o4.gs	Method	GENSCAN

Start	7268	End	8470
GI	none	Score	.63
Exons	7268..7383, 7841..7988, 8183..8470		

Seq. No.	54714	Seq. ID	OJ000322_18.0419.C8
Gene No.	114730	Strand	-
Start	2316	End	14625
Name	OJ000322_18.0419.C8.o2.tm	Method	TBLASTX:Maize
Start	10164	End	10455
GI	none	Score	118
Exons	10164..10262, 10164..10262, 10172..10267, 10352..10453, 10369..10443, 10384..10455, 10391..10453		

Seq. No.	54714	Seq. ID	OJ000322_18.0419.C8
Gene No.	114730	Strand	-
Start	2316	End	14625
Name	OJ000322_18.0419.C8.o1.tc	Method	TBLASTX:Cress
Start	10166	End	12309
GI	none	Score	106
Exons	10166..10246, 10167..10262, 10352..10447, 10366..10500, 11410..11487, 11557..11652, 11562..11750, 11573..11749, 11997..12137, 12007..12156, 12187..12309, 12192..12308		

Seq. No.	54714	Seq. ID	OJ000322_18.0419.C8
Gene No.	114730	Strand	-
Start	2316	End	14625
Name	OJ000322_18.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	10166	End	12309
GI	none	Score	125
Exons	10166..10252, 10167..10271, 10352..10453, 10366..10446, 11410..11487, 11561..11752, 11562..11750, 11573..11752, 11867..11896, 11870..11896, 12003..12137, 12004..12156, 12187..12309, 12207..12299		

Seq. No.	54714	Seq. ID	OJ000322_18.0419.C8
Gene No.	114730	Strand	-
Start	2316	End	14625
Name	OJ000322_18.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	11422	End	12327
GI	none	Score	84
Exons	11422..11487, 11555..11749, 11562..11750, 11603..11755, 11849..11896, 11854..11895, 12004..12327, 12006..12311		

Seq. No.	54715	Seq. ID	OJ000322_18.0419.C9
Gene No.	114731	Strand	+
Start	1359	End	1758
Name	OJ000322_18.0419.C9.o1.gs	Method	GENSCAN
Start	1359	End	1758
GI	none	Score	.47
Exons	1359..1390, 1427..1476, 1691..1758		

Seq. No.	54716	Seq. ID	OJ000322_18.0419.C10
Gene No.	114732	Strand	+
Start	683	End	1176
Name	OJ000322_18.0419.C10.o1.gp	Method	AAT/GAP
Start	683	End	1140
GI	2429054	Score	771

Exons	683..1140		
Seq. No.	54716	Seq. ID	OJ000322_18.0419.C10
Gene No.	114732	Strand	+
Start	683	End	1176
Name	OJ000322_18.0419.C10.o1.gs	Method	GENSCAN
Start	859	End	1176
GI	none	Score	.74
Exons	859..1176		
Seq. No.	54716	Seq. ID	OJ000322_18.0419.C10
Gene No.	114733	Strand	-
Start	1839	End	4362
Name	OJ000322_18.0419.C10.o2.gs	Method	GENSCAN
Start	1839	End	4362
GI	none	Score	.98
Exons	1839..2330, 4036..4362		
Seq. No.	54717	Seq. ID	OJ000322_18.0419.C11
Gene No.	114734	Strand	-
Start	1	End	3589
Name	OJ000322_18.0419.C11.o1.np	Method	AAT/NAP
Start	1	End	3541
GI	4107001	Score	641
Exons	1..23, 588..692, 1052..1141, 1250..1435, 2132..2263, 2524..2706, 3017..3205, 3338..3541		
GI Descrip.	(D82035) OSK4 [Oryza sativa]		
Seq. No.	54717	Seq. ID	OJ000322_18.0419.C11
Gene No.	114734	Strand	-
Start	1	End	3589
Name	OJ000322_18.0419.C11.o1.gs	Method	GENSCAN
Start	588	End	3564
GI	none	Score	.57
Exons	588..692, 1052..1141, 1334..1435, 2132..2263, 2524..2706, 3017..3210, 3277..3403, 3466..3564		
Seq. No.	54717	Seq. ID	OJ000322_18.0419.C11
Gene No.	114734	Strand	-
Start	1	End	3589
Name	OJ000322_18.0419.C11.o1.tc	Method	TBLASTX:Cress
Start	1052	End	3492
GI	none	Score	69
Exons	1052..1141, 1259..1390, 1277..1441, 2126..2257, 2169..2255, 2521..2715, 2603..2710, 3014..3118, 3143..3211, 3382..3492		
Seq. No.	54717	Seq. ID	OJ000322_18.0419.C11
Gene No.	114734	Strand	-
Start	1	End	3589
Name	OJ000322_18.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	1052	End	3489
GI	none	Score	72
Exons	1052..1141, 1250..1441, 1256..1411, 2126..2257, 2169..2255, 2521..2715, 2603..2710, 3014..3133, 3143..3211, 3382..3489		
Seq. No.	54717	Seq. ID	OJ000322_18.0419.C11
Gene No.	114734	Strand	-

Start	1	End	3589
Name	OJ000322_18.0419.C11.o1.ts	Method	TBLASTX:Soybean
Start	1052	End	3489
GI	none	Score	98
Exons	1052..1141, 1259..1441, 2126..2257, 2169..2255, 2521..2715, 2603..2710, 3014..3118, 3143..3211, 3382..3489		

Seq. No.	54717	Seq. ID	OJ000322_18.0419.C11
Gene No.	114734	Strand	-
Start	1	End	3589
Name	OJ000322_18.0419.C11.o1.gp	Method	AAT/GAP
Start	3139	End	3589
GI	1631692	Score	558
Exons	3139..3210, 3342..3589		

Seq. No.	54718	Seq. ID	OJ000322_18.0419.C14
Gene No.	114735	Strand	+
Start	1	End	108
Name	OJ000322_18.0419.C14.o1.np	Method	AAT/NAP
Start	1	End	108
GI	2213594	Score	158
Exons	1..108		
GI Descrip.	(AC000348) T7N9.14 [Arabidopsis thaliana]		

Seq. No.	54718	Seq. ID	OJ000322_18.0419.C14
Gene No.	114736	Strand	-
Start	717	End	800
Name	OJ000322_18.0419.C14.o1.tm	Method	TBLASTX:Maize
Start	1	End	137
GI	none	Score	194
Exons	1..126, 1..126, 3..137		

Seq. No.	54718	Seq. ID	OJ000322_18.0419.C14
Gene No.	114736	Strand	-
Start	717	End	800
Name	OJ000322_18.0419.C14.o1.gs	Method	GENSCAN
Start	717	End	800
GI	none	Score	.75
Exons	717..800		

Seq. No.	54719	Seq. ID	OJ000322_18.0419.C15
Gene No.	114737	Strand	+
Start	2336	End	5042
Name	OJ000322_18.0419.C15.o1.gp	Method	AAT/GAP
Start	2336	End	5042
GI	7179_1.R1084	Score	938
Exons	2336..2536, 3981..4053, 4143..4243, 4811..4876, 4952..5042		
GI Descrip.	'2808638/emb|CAA04701| 2.0e-47 (AJ001367) small GTP-binding protein [Daucus carota]'		

Seq. No.	54719	Seq. ID	OJ000322_18.0419.C15
Gene No.	114737	Strand	+
Start	2336	End	5042
Name	OJ000322_18.0419.C15.o1.np	Method	AAT/NAP
Start	2464	End	5042
GI	7378637	Score	516
Exons	2464..2536, 3981..4053, 4143..4243, 4811..4876, 4952..5042		

GI Descrip. (AL162751) GTP-binding protein-like [Arabidopsis thaliana]

Seq. No.	54719	Seq. ID	OJ000322_18.0419.C15
Gene No.	114737	Strand	+
Start	2336	End	5042
Name	OJ000322_18.0419.C15.o1.tm	Method	TBLASTX:Maize
Start	2475	End	5042
GI	none	Score	75
Exons	2475..2531, 2488..2532, 3976..4053, 3977..4009, 3981..4079, 4140..4238, 4143..4241, 4793..4876, 4801..4887, 4809..4880, 4810..4881, 4941..5009, 4951..5037, 4951..5037, 4953..5042		

Seq. No.	54719	Seq. ID	OJ000322_18.0419.C15
Gene No.	114737	Strand	+
Start	2336	End	5042
Name	OJ000322_18.0419.C15.o1.tc	Method	TBLASTX:Cress
Start	2488	End	5041
GI	none	Score	73
Exons	2488..2538, 3979..4053, 4142..4231, 4143..4241, 4144..4221, 4801..4887, 4809..4880, 4813..4881, 4951..5037, 4952..5041, 4953..5036		

Seq. No.	54719	Seq. ID	OJ000322_18.0419.C15
Gene No.	114737	Strand	+
Start	2336	End	5042
Name	OJ000322_18.0419.C15.o1.ts	Method	TBLASTX:Soybean
Start	2488	End	5037
GI	none	Score	73
Exons	2488..2538, 3979..4053, 4143..4241, 4144..4221, 4794..4880, 4801..4887, 4809..4880, 4951..5037, 4953..5036		

Seq. No.	54719	Seq. ID	OJ000322_18.0419.C15
Gene No.	114737	Strand	+
Start	2336	End	5042
Name	OJ000322_18.0419.C15.o1.tw	Method	TBLASTX:Wheat
Start	4821	End	5041
GI	none	Score	92
Exons	4821..4880, 4822..4887, 4950..5012, 4951..5037, 4952..5041, 4953..5036, 4970..5038		

Seq. No.	54720	Seq. ID	OJ000322_18.0419.C17
Gene No.	114738	Strand	-
Start	733	End	2135
Name	OJ000322_18.0419.C17.o1.tc	Method	TBLASTX:Cress
Start	419	End	943
GI	none	Score	127
Exons	419..595, 421..594, 695..799, 757..825, 774..836, 908..943		

Seq. No.	54720	Seq. ID	OJ000322_18.0419.C17
Gene No.	114738	Strand	-
Start	733	End	2135
Name	OJ000322_18.0419.C17.o3.ts	Method	TBLASTX:Soybean
Start	419	End	580
GI	none	Score	82
Exons	419..580, 421..579		

Seq. No.	54720	Seq. ID	OJ000322_18.0419.C17

Gene No.	114738	Strand	-
Start	733	End	2135
Name	OJ000322_18.0419.C17.o1.tm	Method	TBLASTX:Maize
Start	419	End	1526
GI	none	Score	48
Exons	419..484, 421..594, 533..580, 695..799, 696..794, 757..825, 908..931, 908..943, 946..1011, 953..1033, 953..1195, 954..1202, 1344..1526, 1358..1525		

Seq. No.	54720	Seq. ID	OJ000322_18.0419.C17
Gene No.	114738	Strand	-
Start	733	End	2135
Name	OJ000322_18.0419.C17.o1.np	Method	AAT/NAP
Start	421	End	2135
GI	2213594	Score	1212
Exons	421..594, 698..825, 908..1195, 1358..1587, 1666..2135		
GI Descrip.	(AC000348) T7N9.14 [Arabidopsis thaliana]		

Seq. No.	54720	Seq. ID	OJ000322_18.0419.C17
Gene No.	114738	Strand	-
Start	733	End	2135
Name	OJ000322_18.0419.C17.o1.gs	Method	GENSCAN
Start	733	End	2038
GI	none	Score	.69
Exons	733..825, 908..1195, 1358..1587, 1636..2038		

Seq. No.	54720	Seq. ID	OJ000322_18.0419.C17
Gene No.	114738	Strand	-
Start	733	End	2135
Name	OJ000322_18.0419.C17.o2.ts	Method	TBLASTX:Soybean
Start	908	End	1111
GI	none	Score	43
Exons	908..937, 912..953, 953..1111, 954..1109		

Seq. No.	54720	Seq. ID	OJ000322_18.0419.C17
Gene No.	114738	Strand	-
Start	733	End	2135
Name	OJ000322_18.0419.C17.o1.tw	Method	TBLASTX:Wheat
Start	1043	End	1486
GI	none	Score	134
Exons	1043..1195, 1044..1202, 1361..1486, 1362..1463		

Seq. No.	54720	Seq. ID	OJ000322_18.0419.C17
Gene No.	114738	Strand	-
Start	733	End	2135
Name	OJ000322_18.0419.C17.o1.ts	Method	TBLASTX:Soybean
Start	1112	End	2038
GI	none	Score	94
Exons	1112..1195, 1113..1202, 1361..1522, 1362..1523, 1514..1588, 1518..1589, 1660..1764, 1671..2003, 1679..2002, 1913..2038, 1918..2013		

Seq. No.	54720	Seq. ID	OJ000322_18.0419.C17
Gene No.	114738	Strand	-
Start	733	End	2135
Name	OJ000322_18.0419.C17.o2.tc	Method	TBLASTX:Cress
Start	1361	End	1573

GI	none	Score	141
Exons	1361..1516, 1362..1514, 1370..1516, 1514..1573, 1514..1573		

Seq. No.	54720	Seq. ID	OJ000322_18.0419.C17
Gene No.	114738	Strand	-
Start	733	End	2135
Name	OJ000322_18.0419.C17.o2.tm	Method	TBLASTX:Maize
Start	1526	End	1891
GI	none	Score	81
Exons	1526..1588, 1527..1589, 1671..1886, 1679..1891		

Seq. No.	54721	Seq. ID	OJ000322_18.0419.C19
Gene No.	114739	Strand	+
Start	1	End	707
Name	OJ000322_18.0419.C19.o1.np	Method	AAT/NAP
Start	1	End	707
GI	6466937	Score	516
Exons	1..707		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	54721	Seq. ID	OJ000322_18.0419.C19
Gene No.	114739	Strand	+
Start	1	End	707
Name	OJ000322_18.0419.C19.o1.tw	Method	TBLASTX:Wheat
Start	6	End	335
GI	none	Score	290
Exons	6..335, 62..331		

Seq. No.	54721	Seq. ID	OJ000322_18.0419.C19
Gene No.	114739	Strand	+
Start	1	End	707
Name	OJ000322_18.0419.C19.o1.tm	Method	TBLASTX:Maize
Start	171	End	698
GI	none	Score	520
Exons	171..698, 257..697		

Seq. No.	54721	Seq. ID	OJ000322_18.0419.C19
Gene No.	114739	Strand	+
Start	1	End	707
Name	OJ000322_18.0419.C19.o1.ts	Method	TBLASTX:Soybean
Start	192	End	578
GI	none	Score	356
Exons	192..578, 221..577		

Seq. No.	54721	Seq. ID	OJ000322_18.0419.C19
Gene No.	114739	Strand	+
Start	1	End	707
Name	OJ000322_18.0419.C19.o2.tw	Method	TBLASTX:Wheat
Start	393	End	665
GI	none	Score	217
Exons	393..665		

Seq. No.	54722	Seq. ID	OJ000322_18.0419.C20
Gene No.	114740	Strand	-
Start	737	End	2110
Name	OJ000322_18.0419.C20.o2.tm	Method	TBLASTX:Maize

Start	734	End	952
GI	none	Score	191
Exons	734..952, 745..924		

Seq. No.	54722	Seq. ID	OJ000322_18.0419.C20
Gene No.	114740	Strand	-
Start	737	End	2110
Name	OJ000322_18.0419.C20.o1.gs	Method	GENSCAN
Start	737	End	2056
GI	none	Score	.9
Exons	737..1088, 1368..2056		

Seq. No.	54722	Seq. ID	OJ000322_18.0419.C20
Gene No.	114740	Strand	-
Start	737	End	2110
Name	OJ000322_18.0419.C20.o1.ts	Method	TBLASTX:Soybean
Start	1265	End	1960
GI	none	Score	63
Exons	1265..1375, 1286..1960, 1440..1958, 1805..1960		

Seq. No.	54722	Seq. ID	OJ000322_18.0419.C20
Gene No.	114740	Strand	-
Start	737	End	2110
Name	OJ000322_18.0419.C20.o1.tc	Method	TBLASTX:Cress
Start	1314	End	1969
GI	none	Score	77
Exons	1314..1532, 1319..1540, 1571..1696, 1572..1697, 1697..1783, 1787..1969		

Seq. No.	54722	Seq. ID	OJ000322_18.0419.C20
Gene No.	114740	Strand	-
Start	737	End	2110
Name	OJ000322_18.0419.C20.o1.tm	Method	TBLASTX:Maize
Start	1316	End	1978
GI	none	Score	64
Exons	1316..1546, 1374..1550, 1538..1978, 1623..1724, 1767..1955		

Seq. No.	54722	Seq. ID	OJ000322_18.0419.C20
Gene No.	114740	Strand	-
Start	737	End	2110
Name	OJ000322_18.0419.C20.o2.np	Method	AAT/NAP
Start	1331	End	2110
GI	421955	Score	715
Exons	1331..2110		
GI Descrip.	hypothetical protein 4 - potato transposon Tst1 gi|21434|emb|CAA36616| (X52387) ORF4 [Solanum tuberosum]		

Seq. No.	54722	Seq. ID	OJ000322_18.0419.C20
Gene No.	114740	Strand	-
Start	737	End	2110
Name	OJ000322_18.0419.C20.o1.tw	Method	TBLASTX:Wheat
Start	1724	End	2110
GI	none	Score	35
Exons	1724..1981, 1735..1773, 1851..1982, 1991..2110, 2019..2090		

Seq. No.	54723	Seq. ID	OJ000322_18.0419.C22
Gene No.	114741	Strand	+

Start	4095	End	6973
Name	OJ000322_18.0419.C22.o2.gs	Method	GENSCAN
Start	4095	End	6973
GI	none	Score	.42
Exons	4095..4238, 5044..5122, 5829..5955, 6360..6451, 6531..6973		

Seq. No.	54723	Seq. ID	OJ000322_18.0419.C22
Gene No.	114742	Strand	+
Start	11847	End	12824
Name	OJ000322_18.0419.C22.o2.gp	Method	AAT/GAP
Start	11847	End	12824
GI	1319_1.R1084	Score	1896
Exons	11847..12824		
GI Descrip.	'4972093/emb|CAB43889.1| 4.0e-54 (AL078468) putative protein [Arabidopsis thaliana]'		

Seq. No.	54723	Seq. ID	OJ000322_18.0419.C22
Gene No.	114743	Strand	-
Start	1	End	4106
Name	OJ000322_18.0419.C22.o1.np	Method	AAT/NAP
Start	1	End	4106
GI	6466937	Score	1370
Exons	1..2716, 4071..4106		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	54723	Seq. ID	OJ000322_18.0419.C22
Gene No.	114744	Strand	-
Start	8400	End	9355
Name	OJ000322_18.0419.C22.o1.gp	Method	AAT/GAP
Start	8400	End	9355
GI	3761065	Score	682
Exons	8400..8653, 9234..9355		

Seq. No.	54723	Seq. ID	OJ000322_18.0419.C22
Gene No.	114745	Strand	-
Start	12071	End	12872
Name	OJ000322_18.0419.C22.o2.tm	Method	TBLASTX:Maize
Start	1	End	400
GI	none	Score	51
Exons	1..60, 2..61, 68..400, 81..392		

Seq. No.	54723	Seq. ID	OJ000322_18.0419.C22
Gene No.	114745	Strand	-
Start	12071	End	12872
Name	OJ000322_18.0419.C22.o2.tw	Method	TBLASTX:Wheat
Start	62	End	427
GI	none	Score	154
Exons	62..409, 84..410, 92..427		

Seq. No.	54723	Seq. ID	OJ000322_18.0419.C22
Gene No.	114745	Strand	-
Start	12071	End	12872
Name	OJ000322_18.0419.C22.o1.ts	Method	TBLASTX:Soybean
Start	164	End	523
GI	none	Score	84
Exons	164..409, 183..407, 479..523		

Seq. No.	54723	Seq. ID	OJ000322_18.0419.C22
Gene No.	114745	Strand	-
Start	12071	End	12872
Name	OJ000322_18.0419.C22.o1.tw	Method	TBLASTX:Wheat
Start	500	End	982
GI	none	Score	197
Exons	500..982, 504..974		

Seq. No.	54723	Seq. ID	OJ000322_18.0419.C22
Gene No.	114745	Strand	-
Start	12071	End	12872
Name	OJ000322_18.0419.C22.o1.tm	Method	TBLASTX:Maize
Start	605	End	1088
GI	none	Score	266
Exons	605..1060, 609..1088		

Seq. No.	54723	Seq. ID	OJ000322_18.0419.C22
Gene No.	114745	Strand	-
Start	12071	End	12872
Name	OJ000322_18.0419.C22.o2.ts	Method	TBLASTX:Soybean
Start	632	End	946
GI	none	Score	93
Exons	632..946, 753..941		

Seq. No.	54723	Seq. ID	OJ000322_18.0419.C22
Gene No.	114745	Strand	-
Start	12071	End	12872
Name	OJ000322_18.0419.C22.o4.tm	Method	TBLASTX:Maize
Start	1445	End	1810
GI	none	Score	108
Exons	1445..1729, 1733..1810		

Seq. No.	54723	Seq. ID	OJ000322_18.0419.C22
Gene No.	114745	Strand	-
Start	12071	End	12872
Name	OJ000322_18.0419.C22.o4.gs	Method	GENSCAN
Start	12071	End	12808
GI	none	Score	1
Exons	12071..12808		

Seq. No.	54723	Seq. ID	OJ000322_18.0419.C22
Gene No.	114745	Strand	-
Start	12071	End	12872
Name	OJ000322_18.0419.C22.o2.np	Method	AAT/NAP
Start	12131	End	12864
GI	7487592	Score	519
Exons	12131..12864		
GI Descrip.	hypothetical protein T32A16.60 - Arabidopsis thaliana gi|4972093|emb|CAB43889.1| (AL078468) putative protein [Arabidopsis thaliana] gi|7269238|emb|CAB81307.1| (AL161560) putative protein [Arabidopsis thaliana]		

Seq. No.	54723	Seq. ID	OJ000322_18.0419.C22
Gene No.	114745	Strand	-
Start	12071	End	12872
Name	OJ000322_18.0419.C22.o1.tc	Method	TBLASTX:Cress

Start	12164	End	12538
GI	none	Score	171
Exons	12164..12520, 12189..12422, 12443..12538, 12483..12527		

Seq. No.	54723	Seq. ID	OJ000322_18.0419.C22
Gene No.	114745	Strand	-
Start	12071	End	12872
Name	OJ000322_18.0419.C22.o3.tm	Method	TBLASTX:Maize
Start	12164	End	12368
GI	none	Score	118
Exons	12164..12367, 12179..12280, 12186..12368		

Seq. No.	54723	Seq. ID	OJ000322_18.0419.C22
Gene No.	114745	Strand	-
Start	12071	End	12872
Name	OJ000322_18.0419.C22.o3.ts	Method	TBLASTX:Soybean
Start	12170	End	12355
GI	none	Score	112
Exons	12170..12217, 12179..12355, 12186..12353		

Seq. No.	54723	Seq. ID	OJ000322_18.0419.C22
Gene No.	114745	Strand	-
Start	12071	End	12872
Name	OJ000322_18.0419.C22.o4.ts	Method	TBLASTX:Soybean
Start	12452	End	12718
GI	none	Score	72
Exons	12452..12544, 12483..12536, 12644..12718		

Seq. No.	54723	Seq. ID	OJ000322_18.0419.C22
Gene No.	114745	Strand	-
Start	12071	End	12872
Name	OJ000322_18.0419.C22.o5.tm	Method	TBLASTX:Maize
Start	12474	End	12872
GI	none	Score	106
Exons	12474..12539, 12476..12553, 12482..12553, 12633..12722, 12644..12721, 12800..12826, 12801..12872		

Seq. No.	54724	Seq. ID	OJ000322_18.0419.C23
Gene No.	114746	Strand	+
Start	116	End	1234
Name	OJ000322_18.0419.C23.o1.gs	Method	GENSCAN
Start	116	End	1234
GI	none	Score	.99
Exons	116..1234		

Seq. No.	54724	Seq. ID	OJ000322_18.0419.C23
Gene No.	114747	Strand	+
Start	4207	End	4280
Name	OJ000322_18.0419.C23.o2.gp	Method	AAT/GAP
Start	4207	End	4280
GI	2428185	Score	140
Exons	4207..4280		
GI Descrip.	5852170/emb|AL117265.1|OST17804 1.0e-177 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804		

Seq. No.	54724	Seq. ID	OJ000322_18.0419.C23
Gene No.	114748	Strand	-

Start	1	End	4189
Name	OJ000322_18.0419.C23.o1.np	Method	AAT/NAP
Start	1	End	2060
GI	6523547	Score	108
Exons	1..321, 1912..2060		
GI Descrip.	(AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox carteri f. nagariensis]		

Seq. No.	54724	Seq. ID	OJ000322_18.0419.C23
Gene No.	114748	Strand	-
Start	1	End	4189
Name	OJ000322_18.0419.C23.o2.np	Method	AAT/NAP
Start	1598	End	3563
GI	5852179	Score	201
Exons	1598..1619, 3036..3268, 3343..3563		
GI Descrip.	(AL117265) zhb0009.1 [Oryza sativa]		

Seq. No.	54724	Seq. ID	OJ000322_18.0419.C23
Gene No.	114748	Strand	-
Start	1	End	4189
Name	OJ000322_18.0419.C23.o2.gs	Method	GENSCAN
Start	2260	End	3521
GI	none	Score	.64
Exons	2260..2273, 2720..2995, 3026..3209, 3229..3521		

Seq. No.	54724	Seq. ID	OJ000322_18.0419.C23
Gene No.	114748	Strand	-
Start	1	End	4189
Name	OJ000322_18.0419.C23.o1.gp	Method	AAT/GAP
Start	3453	End	4189
GI	101153_1.R1084	Score	398
Exons	3453..3505, 3959..4189		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 1.0e-115 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	54725	Seq. ID	OJ000322_18.0419.C24
Gene No.	114749	Strand	+
Start	668	End	1261
Name	OJ000322_18.0419.C24.o1.gs	Method	GENSCAN
Start	668	End	1261
GI	none	Score	.54
Exons	668..743, 844..982, 1168..1261		

Seq. No.	54725	Seq. ID	OJ000322_18.0419.C24
Gene No.	114750	Strand	-
Start	3236	End	5380
Name	OJ000322_18.0419.C24.o2.gs	Method	GENSCAN
Start	3236	End	5356
GI	none	Score	1
Exons	3236..5356		

Seq. No.	54725	Seq. ID	OJ000322_18.0419.C24
Gene No.	114750	Strand	-
Start	3236	End	5380
Name	OJ000322_18.0419.C24.o1.np	Method	AAT/NAP
Start	3511	End	5380
GI	4218535	Score	90

Exons	3511..3547, 4905..5380		
GI Descrip.	(AJ010829) GRAB1 protein [Triticum sp.]		
Seq. No.	54726	Seq. ID	OJ000222_11.0419.C1
Gene No.	114751	Strand	+
Start	3424	End	6251
Name	OJ000222_11.0419.C1.o2.gs	Method	GENSCAN
Start	3424	End	4296
GI	none	Score	.69
Exons	3424..3466, 4175..4296		
Seq. No.	54726	Seq. ID	OJ000222_11.0419.C1
Gene No.	114751	Strand	+
Start	3424	End	6251
Name	OJ000222_11.0419.C1.o3.np	Method	AAT/NAP
Start	4131	End	6251
GI	7523517	Score	214
Exons	4131..4442, 4587..4641, 6189..6251		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		
Seq. No.	54726	Seq. ID	OJ000222_11.0419.C1
Gene No.	114752	Strand	+
Start	7388	End	8862
Name	OJ000222_11.0419.C1.o4.gs	Method	GENSCAN
Start	7388	End	8862
GI	none	Score	.77
Exons	7388..7462, 8075..8268, 8619..8690, 8754..8862		
Seq. No.	54726	Seq. ID	OJ000222_11.0419.C1
Gene No.	114753	Strand	-
Start	1	End	2549
Name	OJ000222_11.0419.C1.o1.np	Method	AAT/NAP
Start	1	End	2549
GI	6539570	Score	233
Exons	1..328, 2117..2187, 2347..2549		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		
Seq. No.	54726	Seq. ID	OJ000222_11.0419.C1
Gene No.	114753	Strand	-
Start	1	End	2549
Name	OJ000222_11.0419.C1.o1.gs	Method	GENSCAN
Start	1013	End	1507
GI	none	Score	.84
Exons	1013..1112, 1135..1244, 1478..1507		
Seq. No.	54726	Seq. ID	OJ000222_11.0419.C1
Gene No.	114754	Strand	-
Start	2676	End	4020
Name	OJ000222_11.0419.C1.o2.np	Method	AAT/NAP
Start	2676	End	4020
GI	6630699	Score	73
Exons	2676..2759, 3995..4020		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein [Oryza sativa]		
Seq. No.	54726	Seq. ID	OJ000222_11.0419.C1

Gene No.	114755	Strand	-
Start	5432	End	7112
Name	OJ000222_11.0419.C1.o3.gs	Method	GENSCAN
Start	5432	End	7112
GI	none	Score	.94
Exons	5432..6301, 6423..7112		

Seq. No.	54726	Seq. ID	OJ000222_11.0419.C1
Gene No.	114755	Strand	-
Start	5432	End	7112
Name	OJ000222_11.0419.C1.o4.np	Method	AAT/NAP
Start	5435	End	7112
GI	6522933	Score	1499
Exons	5435..6989, 7020..7112		
GI Descrip.	(AL132978) putative protein [Arabidopsis thaliana]		

Seq. No.	54726	Seq. ID	OJ000222_11.0419.C1
Gene No.	114756	Strand	-
Start	9122	End	9757
Name	OJ000222_11.0419.C1.o1.tc	Method	TBLASTX:Cress
Start	5399	End	5867
GI	none	Score	120
Exons	5399..5728, 5460..5717, 5723..5809, 5808..5867, 5816..5860		

Seq. No.	54726	Seq. ID	OJ000222_11.0419.C1
Gene No.	114756	Strand	-
Start	9122	End	9757
Name	OJ000222_11.0419.C1.o1.tm	Method	TBLASTX:Maize
Start	5883	End	6292
GI	none	Score	40
Exons	5883..5906, 5912..6076, 5913..6104, 6045..6134, 6059..6169, 6161..6289, 6203..6292		

Seq. No.	54726	Seq. ID	OJ000222_11.0419.C1
Gene No.	114756	Strand	-
Start	9122	End	9757
Name	OJ000222_11.0419.C1.o1.ts	Method	TBLASTX:Soybean
Start	6173	End	6415
GI	none	Score	99
Exons	6173..6298, 6321..6410, 6335..6415		

Seq. No.	54726	Seq. ID	OJ000222_11.0419.C1
Gene No.	114756	Strand	-
Start	9122	End	9757
Name	OJ000222_11.0419.C1.o5.gs	Method	GENSCAN
Start	9122	End	9757
GI	none	Score	.83
Exons	9122..9757		

Seq. No.	54727	Seq. ID	OJ000222_11.0419.C2
Gene No.	114757	Strand	-
Start	4311	End	5632
Name	OJ000222_11.0419.C2.o3.tm	Method	TBLASTX:Maize
Start	4309	End	4586
GI	none	Score	257
Exons	4309..4374, 4313..4582, 4326..4586, 4329..4586		

Seq. No.	54727	Seq. ID	OJ000222_11.0419.C2
Gene No.	114757	Strand	-
Start	4311	End	5632
Name	OJ000222_11.0419.C2.o1.np	Method	AAT/NAP
Start	4311	End	5632
GI	5732048	Score	816
Exons	4311..5632		
GI Descrip.	(AF147262) contains similarity to the Pfam family PF00646 - F-box domain; score=10.1, E=1.2, N=1 [Arabidopsis thaliana]		

Seq. No.	54727	Seq. ID	OJ000222_11.0419.C2
Gene No.	114757	Strand	-
Start	4311	End	5632
Name	OJ000222_11.0419.C2.o1.ts	Method	TBLASTX:Soybean
Start	4471	End	5621
GI	none	Score	415
Exons	4471..5247, 4551..5246, 4587..4811, 5295..5453, 5553..5621		

Seq. No.	54727	Seq. ID	OJ000222_11.0419.C2
Gene No.	114757	Strand	-
Start	4311	End	5632
Name	OJ000222_11.0419.C2.o1.tm	Method	TBLASTX:Maize
Start	4587	End	5207
GI	none	Score	779
Exons	4587..5141, 4588..5154, 4641..4760, 5089..5148, 5142..5207, 5149..5205		

Seq. No.	54727	Seq. ID	OJ000222_11.0419.C2
Gene No.	114757	Strand	-
Start	4311	End	5632
Name	OJ000222_11.0419.C2.o1.tc	Method	TBLASTX:Cress
Start	4608	End	5025
GI	none	Score	297
Exons	4608..5024, 4612..5025		

Seq. No.	54727	Seq. ID	OJ000222_11.0419.C2
Gene No.	114757	Strand	-
Start	4311	End	5632
Name	OJ000222_11.0419.C2.o2.tm	Method	TBLASTX:Maize
Start	5208	End	5453
GI	none	Score	64
Exons	5208..5453, 5209..5253, 5310..5435		

Seq. No.	54728	Seq. ID	OJ000222_11.0419.C3
Gene No.	114758	Strand	+
Start	67	End	1716
Name	OJ000222_11.0419.C3.o1.gs	Method	GENSCAN
Start	67	End	1716
GI	none	Score	.65
Exons	67..379, 439..578, 760..798, 1147..1288, 1359..1577, 1694..1716		

Seq. No.	54728	Seq. ID	OJ000222_11.0419.C3
Gene No.	114759	Strand	-
Start	6535	End	6963
Name	OJ000222_11.0419.C3.o1.gp	Method	AAT/GAP
Start	6535	End	6963
GI	none	Score	698

Exons	6535..6963		
Seq. No.	54728	Seq. ID	OJ000222_11.0419.C3
Gene No.	114760	Strand	-
Start	7731	End	10393
Name	OJ000222_11.0419.C3.o3.tm	Method	TBLASTX:Maize
Start	5566	End	6071
GI	none	Score	152
Exons	5566..5844, 5679..5843, 5925..6071, 5940..6065		
Seq. No.	54728	Seq. ID	OJ000222_11.0419.C3
Gene No.	114760	Strand	-
Start	7731	End	10393
Name	OJ000222_11.0419.C3.o3.tc	Method	TBLASTX:Cress
Start	5679	End	6227
GI	none	Score	158
Exons	5679..5846, 5695..5847, 5895..6101, 6162..6227		
Seq. No.	54728	Seq. ID	OJ000222_11.0419.C3
Gene No.	114760	Strand	-
Start	7731	End	10393
Name	OJ000222_11.0419.C3.o2.ts	Method	TBLASTX:Soybean
Start	5680	End	6272
GI	none	Score	159
Exons	5680..5889, 5682..5888, 5931..6086, 6126..6272		
Seq. No.	54728	Seq. ID	OJ000222_11.0419.C3
Gene No.	114760	Strand	-
Start	7731	End	10393
Name	OJ000222_11.0419.C3.o2.tw	Method	TBLASTX:Wheat
Start	5680	End	5984
GI	none	Score	147
Exons	5680..5850, 5691..5849, 5931..5984		
Seq. No.	54728	Seq. ID	OJ000222_11.0419.C3
Gene No.	114760	Strand	-
Start	7731	End	10393
Name	OJ000222_11.0419.C3.o3.ts	Method	TBLASTX:Soybean
Start	6369	End	6864
GI	none	Score	63
Exons	6369..6521, 6525..6677, 6681..6833, 6763..6864		
Seq. No.	54728	Seq. ID	OJ000222_11.0419.C3
Gene No.	114760	Strand	-
Start	7731	End	10393
Name	OJ000222_11.0419.C3.o1.np	Method	AAT/NAP
Start	7731	End	10393
GI	2924777	Score	2328
Exons	7731..8107, 8279..10393		
GI Descrip.	(AC002334) putative receptor-like protein kinase [Arabidopsis thaliana]		
Seq. No.	54728	Seq. ID	OJ000222_11.0419.C3
Gene No.	114760	Strand	-
Start	7731	End	10393
Name	OJ000222_11.0419.C3.o1.ts	Method	TBLASTX:Soybean
Start	7800	End	10103

GI	none	Score	38
Exons	7800..7889, 7806..7913, 7993..8109, 8016..8108, 8229..8327, 8337..8633, 8341..8790, 8346..8804, 9132..9302, 9132..9320, 9175..9429, 9270..9428, 9273..10028, 9312..9404, 9315..9686, 9339..9548, 9348..9758, 9390..10094, 9423..9830, 9484..9843, 9495..9908, 9496..9654, 9496..9729, 9540..10103, 9567..9965, 9604..9825, 9609..10103, 9612..9716, 9640..9822, 9711..10103, 9856..10086		

Seq. No.	54728	Seq. ID	OJ000222_11.0419.C3
Gene No.	114760	Strand	-
Start	7731	End	10393
Name	OJ000222_11.0419.C3.o2.tc	Method	TBLASTX:Cress
Start	7806	End	10103
GI	none	Score	68
Exons	7806..7898, 7930..8109, 7938..8108, 8667..8792, 8704..8796, 9132..9314, 9132..9218, 9135..9314, 9143..9232, 9153..9314, 9187..9294, 9276..9314, 9324..9626, 9324..9905, 9324..10046, 9330..9665, 9342..10094, 9342..9779, 9402..9716, 9417..9473, 9477..10103, 9477..9785, 9567..9860, 9618..9935, 9714..9833, 9774..10076, 9789..9965, 9834..10094, 9846..10088, 9918..10103, 10002..10103, 10011..10103		

Seq. No.	54728	Seq. ID	OJ000222_11.0419.C3
Gene No.	114760	Strand	-
Start	7731	End	10393
Name	OJ000222_11.0419.C3.o1.tm	Method	TBLASTX:Maize
Start	8034	End	8789
GI	none	Score	197
Exons	8034..8108, 8205..8339, 8340..8789, 8347..8661, 8499..8675, 8704..8778		

Seq. No.	54728	Seq. ID	OJ000222_11.0419.C3
Gene No.	114760	Strand	-
Start	7731	End	10393
Name	OJ000222_11.0419.C3.o1.tc	Method	TBLASTX:Cress
Start	8283	End	8651
GI	none	Score	284
Exons	8283..8585, 8284..8586, 8562..8651		

Seq. No.	54728	Seq. ID	OJ000222_11.0419.C3
Gene No.	114760	Strand	-
Start	7731	End	10393
Name	OJ000222_11.0419.C3.o1.tw	Method	TBLASTX:Wheat
Start	8373	End	8687
GI	none	Score	182
Exons	8373..8687, 8386..8667		

Seq. No.	54728	Seq. ID	OJ000222_11.0419.C3
Gene No.	114760	Strand	-
Start	7731	End	10393
Name	OJ000222_11.0419.C3.o3.tw	Method	TBLASTX:Wheat
Start	9132	End	10103
GI	none	Score	61
Exons	9132..9314, 9135..9272, 9318..9620, 9438..9749, 9516..9830, 9732..10052, 9745..9963, 9798..10103, 9856..10041		

Seq. No.	54728	Seq. ID	OJ000222_11.0419.C3
Gene No.	114760	Strand	-
Start	7731	End	10393
Name	OJ000222_11.0419.C3.o2.tm	Method	TBLASTX:Maize
Start	9324	End	10103
GI	none	Score	221
Exons	9324..9557, 9325..9531, 9396..9626, 9468..9689, 9530..9637, 9531..9638, 9532..9636, 9535..9639, 9612..9833, 9684..9893, 9828..10037, 9900..10103		

Seq. No.	54729	Seq. ID	OJ000322_19.0419.C1
Gene No.	114761	Strand	-
Start	628	End	782
Name	OJ000322_19.0419.C1.o1.np	Method	AAT/NAP
Start	628	End	782
GI	6006359	Score	85
Exons	628..782		
GI Descrip.	(AP000559) hypothetical protein [Oryza sativa]		

Seq. No.	54730	Seq. ID	OJ000322_19.0419.C3
Gene No.	114762	Strand	-
Start	1	End	2304
Name	OJ000322_19.0419.C3.o1.np	Method	AAT/NAP
Start	1	End	2304
GI	6016874	Score	1810
Exons	1..47, 108..467, 585..764, 1158..1317, 1708..1940, 2005..2142, 2226..2304		
GI Descrip.	(AP000570) ESTs C19143(E10020),D25076(R3116) correspond to a region of the predicted gene.; Similar to putative AC9 transposase. (P03010) [Oryza sativa]		

Seq. No.	54730	Seq. ID	OJ000322_19.0419.C3
Gene No.	114762	Strand	-
Start	1	End	2304
Name	OJ000322_19.0419.C3.o1.gs	Method	GENSCAN
Start	124	End	2304
GI	none	Score	.63
Exons	124..584, 1158..1317, 1852..1940, 2005..2142, 2226..2304		

Seq. No.	54730	Seq. ID	OJ000322_19.0419.C3
Gene No.	114762	Strand	-
Start	1	End	2304
Name	OJ000322_19.0419.C3.o2.tm	Method	TBLASTX:Maize
Start	190	End	433
GI	none	Score	97
Exons	190..423, 275..433		

Seq. No.	54730	Seq. ID	OJ000322_19.0419.C3
Gene No.	114762	Strand	-
Start	1	End	2304
Name	OJ000322_19.0419.C3.o4.tm	Method	TBLASTX:Maize
Start	545	End	897
GI	none	Score	133
Exons	545..886, 616..897		

Seq. No.	54730	Seq. ID	OJ000322_19.0419.C3
Gene No.	114762	Strand	-

Start	1	End	2304
Name	OJ000322_19.0419.C3.o3.tm	Method	TBLASTX:Maize
Start	1102	End	1416
GI	none	Score	108
Exons	1102..1329, 1103..1321, 1342..1416		

Seq. No.	54730	Seq. ID	OJ000322_19.0419.C3
Gene No.	114762	Strand	-
Start	1	End	2304
Name	OJ000322_19.0419.C3.o1.gp	Method	AAT/GAP
Start	1107	End	1615
GI	uC-osflcyp110c07b1	Score	970
Exons	1107..1615		
GI Descrip.	'4680178/gb|AF111709.1|AF111709 5.0e-81 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes'		

Seq. No.	54730	Seq. ID	OJ000322_19.0419.C3
Gene No.	114762	Strand	-
Start	1	End	2304
Name	OJ000322_19.0419.C3.o1.tm	Method	TBLASTX:Maize
Start	1510	End	1956
GI	none	Score	110
Exons	1510..1548, 1543..1599, 1636..1884, 1676..1885, 1870..1956		

Seq. No.	54731	Seq. ID	OJ000322_19.0419.C4
Gene No.	114763	Strand	+
Start	655	End	4300
Name	OJ000322_19.0419.C4.o1.gp	Method	AAT/GAP
Start	655	End	1698
GI	none	Score	950
Exons	655..816, 1376..1698		

Seq. No.	54731	Seq. ID	OJ000322_19.0419.C4
Gene No.	114763	Strand	+
Start	655	End	4300
Name	OJ000322_19.0419.C4.o1.np	Method	AAT/NAP
Start	1393	End	4300
GI	2494034	Score	1374
Exons	1393..2511, 2921..3296, 3403..3479, 3680..3799, 3892..4056, 4216..4300		
GI Descrip.	DIACYLGLYCEROL KINASE 1 (DIGLYCERIDE KINASE) (DGK 1) (DAG KINASE 1) gi|2129573|pir||S71467 diacylglycerol kinase - Arabidopsis thaliana gi|1374772|dbj|BAA09856| (D63787) diacylglycerol kinase [Arabidopsis thaliana]		

Seq. No.	54731	Seq. ID	OJ000322_19.0419.C4
Gene No.	114763	Strand	+
Start	655	End	4300
Name	OJ000322_19.0419.C4.o3.tm	Method	TBLASTX:Maize
Start	1410	End	1574
GI	none	Score	206
Exons	1410..1574, 1417..1572		

Seq. No.	54731	Seq. ID	OJ000322_19.0419.C4
Gene No.	114763	Strand	+
Start	655	End	4300

Name	OJ000322_19.0419.C4.o1.gs	Method	GENSCAN
Start	1447	End	4056
GI	none	Score	.64
Exons	1447..2511, 2921..3128, 3153..3296, 3403..3479, 3680..3799, 3892..4056		

Seq. No.	54731	Seq. ID	OJ000322_19.0419.C4
Gene No.	114763	Strand	+
Start	655	End	4300
Name	OJ000322_19.0419.C4.o1.tc	Method	TBLASTX:Cress
Start	1501	End	4299
GI	none	Score	85
Exons	1501..1722, 1734..1838, 1745..2053, 1753..2112, 1855..2064, 1902..2093, 2380..2532, 2918..3268, 2923..3225, 3275..3298, 3399..3479, 3401..3478, 3677..3799, 3679..3801, 3889..4065, 3891..4058, 4216..4299		

Seq. No.	54731	Seq. ID	OJ000322_19.0419.C4
Gene No.	114763	Strand	+
Start	655	End	4300
Name	OJ000322_19.0419.C4.o2.tm	Method	TBLASTX:Maize
Start	1750	End	2097
GI	none	Score	398
Exons	1750..2097, 1750..2046, 1905..2096		

Seq. No.	54731	Seq. ID	OJ000322_19.0419.C4
Gene No.	114763	Strand	+
Start	655	End	4300
Name	OJ000322_19.0419.C4.o2.ts	Method	TBLASTX:Soybean
Start	1861	End	2097
GI	none	Score	264
Exons	1861..2097, 1908..2093		

Seq. No.	54731	Seq. ID	OJ000322_19.0419.C4
Gene No.	114763	Strand	+
Start	655	End	4300
Name	OJ000322_19.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	2379	End	4299
GI	none	Score	62
Exons	2379..2474, 2383..2526, 2385..2525, 2918..3247, 2918..3148, 2944..3252, 3275..3298, 3401..3478, 3402..3479, 3677..3799, 3679..3795, 3889..4005, 3889..4002, 4002..4058, 4003..4065, 4186..4299, 4216..4299		

Seq. No.	54731	Seq. ID	OJ000322_19.0419.C4
Gene No.	114763	Strand	+
Start	655	End	4300
Name	OJ000322_19.0419.C4.o3.ts	Method	TBLASTX:Soybean
Start	3010	End	3199
GI	none	Score	197
Exons	3010..3183, 3011..3199		

Seq. No.	54731	Seq. ID	OJ000322_19.0419.C4
Gene No.	114763	Strand	+
Start	655	End	4300
Name	OJ000322_19.0419.C4.o1.ts	Method	TBLASTX:Soybean
Start	3405	End	4299

GI	none	Score	96
Exons	3405..3479, 3407..3478, 3674..3778, 3677..3799, 3679..3801, 3887..4057, 3889..4065, 3890..4057, 3891..4058, 4215..4298, 4216..4299		

Seq. No.	54731	Seq. ID	OJ000322_19.0419.C4
Gene No.	114763	Strand	+
Start	655	End	4300
Name	OJ000322_19.0419.C4.o2.gp	Method	AAT/GAP
Start	3725	End	4300
GI	53991_1.R1084	Score	547
Exons	3725..3799, 3892..4056, 4216..4300		
GI Descrip.	'2494034/sp|Q39017|KDG1_ARATH 8.0e-52 DIACYLGLYCEROL KINASE 1 (DIGLYCERIDE KINASE) (DGK 1) (DAG KINASE 1) >gi_2129573_pir__S71467 diacylglycerol kinase - Arabidopsis thaliana >gi_1374772_dbj_BAA09856_ (D63787) diacylglycerol kinase [Arabidopsis thaliana]'		

Seq. No.	54732	Seq. ID	OJ000322_19.0419.C5
Gene No.	114764	Strand	+
Start	2527	End	4374
Name	OJ000322_19.0419.C5.o1.gs	Method	GENSCAN
Start	2527	End	4374
GI	none	Score	.99
Exons	2527..3179, 4086..4374		

Seq. No.	54732	Seq. ID	OJ000322_19.0419.C5
Gene No.	114765	Strand	-
Start	1	End	159
Name	OJ000322_19.0419.C5.o1.gp	Method	AAT/GAP
Start	1	End	159
GI	none	Score	299
Exons	1..159		

Seq. No.	54732	Seq. ID	OJ000322_19.0419.C5
Gene No.	114766	Strand	-
Start	4962	End	6104
Name	OJ000322_19.0419.C5.o2.gs	Method	GENSCAN
Start	4962	End	5749
GI	none	Score	.57
Exons	4962..5441, 5657..5749		

Seq. No.	54732	Seq. ID	OJ000322_19.0419.C5
Gene No.	114766	Strand	-
Start	4962	End	6104
Name	OJ000322_19.0419.C5.o1.tw	Method	TBLASTX:Wheat
Start	5196	End	5402
GI	none	Score	71
Exons	5196..5402, 5248..5325		

Seq. No.	54732	Seq. ID	OJ000322_19.0419.C5
Gene No.	114766	Strand	-
Start	4962	End	6104
Name	OJ000322_19.0419.C5.o1.np	Method	AAT/NAP
Start	5244	End	6104
GI	6539555	Score	839
Exons	5244..5553, 5657..6104		

GI Descrip.	(AP000836) Similar to mariner transposase (AF078934) [Oryza sativa] gi|6539592|dbj|BAA88208.1| (AP000837) Similar to mariner transposase (AF078934) [Oryza sativa]		
Seq. No.	54733	Seq. ID	OJ000322_19.0419.C6
Gene No.	114767	Strand	+
Start	505	End	968
Name	OJ000322_19.0419.C6.o1.gs	Method	GENSCAN
Start	505	End	968
GI	none	Score	.75
Exons	505..622, 955..968		
Seq. No.	54733	Seq. ID	OJ000322_19.0419.C6
Gene No.	114768	Strand	-
Start	2219	End	3709
Name	OJ000322_19.0419.C6.o2.gs	Method	GENSCAN
Start	2219	End	3709
GI	none	Score	.9
Exons	2219..2679, 3694..3709		
Seq. No.	54734	Seq. ID	OJ000322_19.0419.C7
Gene No.	114769	Strand	+
Start	217	End	1480
Name	OJ000322_19.0419.C7.o1.gs	Method	GENSCAN
Start	217	End	1480
GI	none	Score	.41
Exons	217..264, 391..670, 1164..1227, 1384..1480		
Seq. No.	54735	Seq. ID	OJ000322_19.0419.C9
Gene No.	114770	Strand	-
Start	225	End	367
Name	OJ000322_19.0419.C9.o1.gs	Method	GENSCAN
Start	225	End	367
GI	none	Score	.46
Exons	225..367		
Seq. No.	54735	Seq. ID	OJ000322_19.0419.C9
Gene No.	114771	Strand	-
Start	1403	End	1616
Name	OJ000322_19.0419.C9.o2.gs	Method	GENSCAN
Start	1403	End	1616
GI	none	Score	.75
Exons	1403..1616		
Seq. No.	54736	Seq. ID	OJ000322_19.0419.C10
Gene No.	114772	Strand	+
Start	1	End	512
Name	OJ000322_19.0419.C10.o1.gp	Method	AAT/GAP
Start	1	End	512
GI	21474_1.R1084	Score	238
Exons	1..27, 370..512		
GI Descrip.	'3894159 2.0e-10 (AC005312) hypothetical protein [Arabidopsis thaliana]'		
Seq. No.	54736	Seq. ID	OJ000322_19.0419.C10
Gene No.	114773	Strand	-
Start	865	End	3943

Name	OJ000322_19.0419.C10.o1.np	Method	AAT/NAP
Start	561	End	811
GI	862343	Score	120
Exons	561..811		
GI Descrip.	(L10908) Gcap1 gene product [Mus musculus] gi|1092097|prf||2022314A granule cell marker protein [Mus musculus] gi|1092098|prf||2022315A granule cell marker protein [Mus musculus]		

Seq. No.	54736	Seq. ID	OJ000322_19.0419.C10
Gene No.	114773	Strand	-
Start	865	End	3943
Name	OJ000322_19.0419.C10.o2.np	Method	AAT/NAP
Start	846	End	3943
GI	4680204	Score	804
Exons	846..887, 922..1017, 1367..1586, 1683..1855, 1965..3062, 3137..3943		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	54736	Seq. ID	OJ000322_19.0419.C10
Gene No.	114773	Strand	-
Start	865	End	3943
Name	OJ000322_19.0419.C10.o1.gs	Method	GENSCAN
Start	865	End	3877
GI	none	Score	.5
Exons	865..1046, 1122..1224, 1319..1391, 1476..1586, 1709..1855, 1965..2176, 2305..2518, 2563..2648, 2650..2744, 2921..3062, 3137..3877		

Seq. No.	54736	Seq. ID	OJ000322_19.0419.C10
Gene No.	114773	Strand	-
Start	865	End	3943
Name	OJ000322_19.0419.C10.o2.gp	Method	AAT/GAP
Start	2065	End	2544
GI	uC-osflcyp176f10b1	Score	810
Exons	2065..2544		
GI Descrip.	'6041757/gb|AC011806.1|AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence'		

Seq. No.	54736	Seq. ID	OJ000322_19.0419.C10
Gene No.	114773	Strand	-
Start	865	End	3943
Name	OJ000322_19.0419.C10.o2.tw	Method	TBLASTX:Wheat
Start	2850	End	3526
GI	none	Score	54
Exons	2850..3071, 2995..3069, 3134..3205, 3446..3526		

Seq. No.	54736	Seq. ID	OJ000322_19.0419.C10
Gene No.	114773	Strand	-
Start	865	End	3943
Name	OJ000322_19.0419.C10.o1.tw	Method	TBLASTX:Wheat
Start	3527	End	3930
GI	none	Score	50
Exons	3527..3622, 3527..3697, 3687..3827, 3692..3928, 3779..3928, 3790..3930, 3814..3930		

Seq. No.	54737	Seq. ID	OJ000322_19.0419.C11
Gene No.	114774	Strand	+
Start	1	End	122
Name	OJ000322_19.0419.C11.o1.gp	Method	AAT/GAP
Start	1	End	122
GI	2310235	Score	194
Exons	1..122		
GI Descrip.	5852182/emb|CAB55420.1| 9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]		

Seq. No.	54737	Seq. ID	OJ000322_19.0419.C11
Gene No.	114775	Strand	-
Start	1	End	3181
Name	OJ000322_19.0419.C11.o1.np	Method	AAT/NAP
Start	1	End	3181
GI	4680204	Score	93
Exons	1..80, 1777..2044, 2096..2209, 3120..3181		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	54737	Seq. ID	OJ000322_19.0419.C11
Gene No.	114775	Strand	-
Start	1	End	3181
Name	OJ000322_19.0419.C11.o2.gp	Method	AAT/GAP
Start	2357	End	3082
GI	342_1.R1084	Score	1066
Exons	2357..2875, 2985..3082		
GI Descrip.	'4574406/gb|AAD24042.1| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	54738	Seq. ID	OJ000322_19.0419.C14
Gene No.	114776	Strand	-
Start	1428	End	1604
Name	OJ000322_19.0419.C14.o1.gs	Method	GENSCAN
Start	1428	End	1604
GI	none	Score	.99
Exons	1428..1604		

Seq. No.	54739	Seq. ID	OJ000322_19.0419.C15
Gene No.	114777	Strand	+
Start	907	End	1161
Name	OJ000322_19.0419.C15.o1.gs	Method	GENSCAN
Start	907	End	1161
GI	none	Score	.69
Exons	907..1161		

Seq. No.	54739	Seq. ID	OJ000322_19.0419.C15
Gene No.	114778	Strand	-
Start	313	End	392
Name	OJ000322_19.0419.C15.o1.gp	Method	AAT/GAP
Start	313	End	392
GI	uC-osflcyp171a04a1	Score	120
Exons	313..392		
GI Descrip.	'4680178/gb|AF111709.1|AF111709 5.0e-81 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes'		

Seq. No.	54739	Seq. ID	OJ000322_19.0419.C15

Gene No.	114779	Strand	-
Start	1644	End	2998
Name	OJ000322_19.0419.C15.o2.gs	Method	GENSCAN
Start	1644	End	2998
GI	none	Score	.82
Exons	1644..1769, 2534..2600, 2922..2998		

Seq. No.	54740	Seq. ID	OJ000322_19.0419.C16
Gene No.	114780	Strand	+
Start	2916	End	4519
Name	OJ000322_19.0419.C16.o2.np	Method	AAT/NAP
Start	2916	End	4519
GI	6016874	Score	228
Exons	2916..3145, 4433..4519		
GI Descrip.	(AP000570) ESTs C19143(E10020),D25076(R3116) correspond to a region of the predicted gene.; Similar to putative AC9 transposase. (P03010) [Oryza sativa]		

Seq. No.	54740	Seq. ID	OJ000322_19.0419.C16
Gene No.	114781	Strand	+
Start	10323	End	12076
Name	OJ000322_19.0419.C16.o3.np	Method	AAT/NAP
Start	10323	End	12076
GI	6742729	Score	1915
Exons	10323..12076		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	54740	Seq. ID	OJ000322_19.0419.C16
Gene No.	114782	Strand	-
Start	42	End	1970
Name	OJ000322_19.0419.C16.o1.np	Method	AAT/NAP
Start	42	End	1970
GI	6850314	Score	80
Exons	42..207, 1932..1970		
GI Descrip.	(AC009999) Contains similarity to a basic endochitinase from Arabidopis thaliana gb|AB023448, and contains a Chitinases class I PF|00182 domain. ESTs gb|AI995747, gb|AA728545, gb|Z26222, gb|Z25683, gb|T88386, gb|T1...		

Seq. No.	54740	Seq. ID	OJ000322_19.0419.C16
Gene No.	114783	Strand	-
Start	5984	End	9920
Name	OJ000322_19.0419.C16.o2.tm	Method	TBLASTX:Maize
Start	37	End	1775
GI	none	Score	170
Exons	37..207, 41..202, 134..208, 1669..1752, 1670..1774, 1673..1774, 1674..1775		

Seq. No.	54740	Seq. ID	OJ000322_19.0419.C16
Gene No.	114783	Strand	-
Start	5984	End	9920
Name	OJ000322_19.0419.C16.o2.gs	Method	GENSCAN
Start	5984	End	9920
GI	none	Score	.53
Exons	5984..6169, 6195..6248, 6381..6550, 7514..7605, 8546..8691, 8749..9032, 9096..9187, 9280..9393, 9814..9920		

Seq. No.	54740	Seq. ID	OJ000322_19.0419.C16
Gene No.	114783	Strand	-
Start	5984	End	9920
Name	OJ000322_19.0419.C16.o3.tw	Method	TBLASTX:Wheat
Start	6495	End	6852
GI	none	Score	84
Exons	6495..6638, 6616..6777, 6617..6784, 6775..6852, 6778..6849, 6780..6851		

Seq. No.	54740	Seq. ID	OJ000322_19.0419.C16
Gene No.	114783	Strand	-
Start	5984	End	9920
Name	OJ000322_19.0419.C16.o1.gp	Method	AAT/GAP
Start	6939	End	7149
GI	1631463	Score	335
Exons	6939..7149		
GI Descrip.	4680178/gb|AF111709.1|AF111709 5.0e-81 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes		

Seq. No.	54740	Seq. ID	OJ000322_19.0419.C16
Gene No.	114784	Strand	
Start	10281	End	10728
Name	OJ000322_19.0419.C16.o2.tc	Method	TBLASTX:Cress
Start	10281	End	10643
GI	none	Score	255
Exons	10281..10643, 10301..10441, 10505..10639		

Seq. No.	54740	Seq. ID	OJ000322_19.0419.C16
Gene No.	114784	Strand	
Start	10281	End	10728
Name	OJ000322_19.0419.C16.o1.tm	Method	TBLASTX:Maize
Start	10302	End	10688
GI	none	Score	50
Exons	10302..10391, 10407..10688, 10421..10639		

Seq. No.	54740	Seq. ID	OJ000322_19.0419.C16
Gene No.	114784	Strand	
Start	10281	End	10728
Name	OJ000322_19.0419.C16.o2.tw	Method	TBLASTX:Wheat
Start	10431	End	10728
GI	none	Score	320
Exons	10431..10718, 10431..10703, 10447..10728		

Seq. No.	54740	Seq. ID	OJ000322_19.0419.C16
Gene No.	114785	Strand	
Start	11027	End	11404
Name	OJ000322_19.0419.C16.o4.tw	Method	TBLASTX:Wheat
Start	11027	End	11404
GI	none	Score	72
Exons	11027..11089, 11095..11163, 11099..11188, 11155..11280, 11156..11314, 11165..11314, 11319..11396, 11320..11403, 11323..11403, 11324..11404		

Seq. No.	54740	Seq. ID	OJ000322_19.0419.C16
Gene No.	114786	Strand	
Start	11407	End	12065

Name	OJ000322_19.0419.C16.o1.tw	Method	TBLASTX:Wheat
Start	11407	End	12065
GI	none	Score	44
Exons	11407..11439, 11444..12064, 11445..12065		

Seq. No.	54740	Seq. ID	OJ000322_19.0419.C16
Gene No.	114786	Strand	
Start	11407	End	12065
Name	OJ000322_19.0419.C16.o1.tc	Method	TBLASTX:Cress
Start	11524	End	11976
GI	none	Score	318
Exons	11524..11706, 11528..11941, 11532..11951, 11538..11975, 11722..11976		

Seq. No.	54741	Seq. ID	OJ000322_19.0419.C17
Gene No.	114787	Strand	+
Start	402	End	691
Name	OJ000322_19.0419.C17.o1.gs	Method	GENSCAN
Start	402	End	691
GI	none	Score	.72
Exons	402..489, 675..691		

Seq. No.	54741	Seq. ID	OJ000322_19.0419.C17
Gene No.	114788	Strand	-
Start	306	End	2914
Name	OJ000322_19.0419.C17.o1.np	Method	AAT/NAP
Start	306	End	2914
GI	7106528	Score	71
Exons	306..427, 2883..2914		
GI Descrip.	(AP001278) EST D40774(S2920) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	54741	Seq. ID	OJ000322_19.0419.C17
Gene No.	114788	Strand	-
Start	306	End	2914
Name	OJ000322_19.0419.C17.o1.gp	Method	AAT/GAP
Start	951	End	1377
GI	none	Score	801
Exons	951..1377		

Seq. No.	54741	Seq. ID	OJ000322_19.0419.C17
Gene No.	114788	Strand	-
Start	306	End	2914
Name	OJ000322_19.0419.C17.o2.gs	Method	GENSCAN
Start	1048	End	1311
GI	none	Score	.52
Exons	1048..1311		

Seq. No.	54741	Seq. ID	OJ000322_19.0419.C17
Gene No.	114789	Strand	-
Start	3405	End	3518
Name	OJ000322_19.0419.C17.o3.gs	Method	GENSCAN
Start	3405	End	3518
GI	none	Score	.99
Exons	3405..3518		

Seq. No.	54742	Seq. ID	OJ000322_19.0419.C18

Gene No.	114790	Strand	-
Start	533	End	714
Name	OJ000322_19.0419.C18.o1.gs	Method	GENSCAN
Start	533	End	714
GI	none	Score	.4
Exons	533..714		

Seq. No.	54742	Seq. ID	OJ000322_19.0419.C18
Gene No.	114791	Strand	-
Start	1204	End	3947
Name	OJ000322_19.0419.C18.o2.gs	Method	GENSCAN
Start	1204	End	1457
GI	none	Score	.83
Exons	1204..1318, 1324..1457		

Seq. No.	54742	Seq. ID	OJ000322_19.0419.C18
Gene No.	114791	Strand	-
Start	1204	End	3947
Name	OJ000322_19.0419.C18.o1.np	Method	AAT/NAP
Start	1207	End	2977
GI	5922620	Score	194
Exons	1207..1340, 2946..2977		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6016853|dbj|BAA85196.1| (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	54742	Seq. ID	OJ000322_19.0419.C18
Gene No.	114791	Strand	-
Start	1204	End	3947
Name	OJ000322_19.0419.C18.o2.np	Method	AAT/NAP
Start	1844	End	3947
GI	5295955	Score	727
Exons	1844..2454, 2544..2833, 2897..2941, 3028..3154, 3833..3947		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		

Seq. No.	54742	Seq. ID	OJ000322_19.0419.C18
Gene No.	114791	Strand	-
Start	1204	End	3947
Name	OJ000322_19.0419.C18.o3.gs	Method	GENSCAN
Start	2481	End	2855
GI	none	Score	.77
Exons	2481..2855		

Seq. No.	54743	Seq. ID	OJ000322_19.0419.C19
Gene No.	114792	Strand	-
Start	108	End	245
Name	OJ000322_19.0419.C19.o1.gs	Method	GENSCAN
Start	108	End	245
GI	none	Score	.54
Exons	108..245		

Seq. No.	54744	Seq. ID	OJ000322_19.0419.C22
Gene No.	114793	Strand	+
Start	601	End	4798

Name	OJ000322_19.0419.C22.o1.gs	Method	GENSCAN
Start	601	End	4798
GI	none	Score	.75
Exons	601..3072, 4481..4798		

Seq. No.	54744	Seq. ID	OJ000322_19.0419.C22
Gene No.	114793	Strand	+
Start	601	End	4798
Name	OJ000322_19.0419.C22.o1.np	Method	AAT/NAP
Start	604	End	3700
GI	6682625	Score	892
Exons	604..957, 1342..2385, 2530..3700		
GI Descrip.	(AC016163) putative disease resistance protein [Arabidopsis thaliana]		

Seq. No.	54744	Seq. ID	OJ000322_19.0419.C22
Gene No.	114793	Strand	+
Start	601	End	4798
Name	OJ000322_19.0419.C22.o1.gp	Method	AAT/GAP
Start	2398	End	2741
GI	LIB3431-050-P1-K1-B7	Score	648
Exons	2398..2741		
GI Descrip.	'2924785 2.0e-11 (AC002334) similar to disease resistance protein [Arabidopsis thaliana]'		

Seq. No.	54744	Seq. ID	OJ000322_19.0419.C22
Gene No.	114794	Strand	+
Start	7116	End	7481
Name	OJ000322_19.0419.C22.o2.gs	Method	GENSCAN
Start	7116	End	7481
GI	none	Score	.84
Exons	7116..7481		

Seq. No.	54744	Seq. ID	OJ000322_19.0419.C22
Gene No.	114795	Strand	-
Start	3572	End	3868
Name	OJ000322_19.0419.C22.o2.gp	Method	AAT/GAP
Start	3572	End	3868
GI	none	Score	578
Exons	3572..3868		

Seq. No.	54744	Seq. ID	OJ000322_19.0419.C22
Gene No.	114796	Strand	-
Start	7083	End	9756
Name	OJ000322_19.0419.C22.o1.tc	Method	TBLASTX:Cress
Start	904	End	3467
GI	none	Score	37
Exons	904..966, 1000..1116, 1315..1509, 1318..1941, 1582..1797, 1588..2016, 1600..2004, 1606..1887, 1606..2010, 1648..1941, 1720..2004, 1741..1929, 1780..1944, 1809..1949, 1810..2067, 2029..2073, 2035..2073, 2152..2256, 2152..2265, 2338..2418, 2476..2616, 2503..2814, 2527..2895, 2527..2604, 2548..2610, 2623..2889, 2626..2889, 2629..2889, 2629..2889, 2629..2757, 2653..2889, 2773..2883, 2956..3003, 3140..3196, 3189..3416, 3192..3413, 3213..3413, 3213..3413, 3213..3467, 3213..3350, 3221..3352, 3222..3386, 3222..3413, 3231..3413, 3236..3403, 3239..3403, 3243..3413, 3357..3437, 3441..3464		

Seq. No.	54744	Seq. ID	OJ000322_19.0419.C22
Gene No.	114796	Strand	-
Start	7083	End	9756
Name	OJ000322_19.0419.C22.o1.tm	Method	TBLASTX:Maize
Start	973	End	3413
GI	none	Score	69
Exons	973..1104, 1741..1878, 1807..1944, 2446..2544, 2446..2526, 2547..2888, 2551..2889, 2569..2898, 2896..2982, 2916..2981, 3276..3413		

Seq. No.	54744	Seq. ID	OJ000322_19.0419.C22
Gene No.	114796	Strand	-
Start	7083	End	9756
Name	OJ000322_19.0419.C22.o1.ts	Method	TBLASTX:Soybean
Start	1003	End	3488
GI	none	Score	65
Exons	1003..1104, 1567..1908, 1621..2010, 1708..1938, 1759..2010, 1816..2028, 1818..2006, 1894..2253, 2038..2073, 2164..2250, 2164..2244, 2332..2385, 2338..2400, 2500..2601, 2527..2616, 2551..2610, 2617..2871, 2626..2889, 2626..2859, 2638..2676, 2638..2883, 2788..2892, 2905..3039, 3074..3184, 3131..3220, 3155..3196, 3186..3488, 3192..3329, 3213..3425, 3213..3401, 3213..3329, 3218..3478, 3249..3422, 3279..3371, 3291..3410		

Seq. No.	54744	Seq. ID	OJ000322_19.0419.C22
Gene No.	114796	Strand	-
Start	7083	End	9756
Name	OJ000322_19.0419.C22.o2.np	Method	AAT/NAP
Start	7083	End	9756
GI	5042454	Score	108
Exons	7083..7265, 9239..9365, 9691..9756		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	54745	Seq. ID	OJ000322_19.0419.C23
Gene No.	114797	Strand	+
Start	907	End	4129
Name	OJ000322_19.0419.C23.o1.gs	Method	GENSCAN
Start	907	End	4129
GI	none	Score	.88
Exons	907..2168, 2261..2738, 2867..4129		

Seq. No.	54745	Seq. ID	OJ000322_19.0419.C23
Gene No.	114797	Strand	+
Start	907	End	4129
Name	OJ000322_19.0419.C23.o1.np	Method	AAT/NAP
Start	907	End	4126
GI	5803259	Score	4208
Exons	907..2168, 2261..4126		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	54745	Seq. ID	OJ000322_19.0419.C23
Gene No.	114798	Strand	+
Start	10994	End	13438
Name	OJ000322_19.0419.C23.o3.np	Method	AAT/NAP
Start	10994	End	13438
GI	5922623	Score	346

Exons	10994..11074, 11443..11589, 11757..11871, 13391..13438		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi|6016856|dbj|BAA85199.1| (AP000570) hypothetical protein [Oryza sativa]		
Seq. No.	54745	Seq. ID	OJ000322_19.0419.C23
Gene No.	114799	Strand	-
Start	4763	End	10916
Name	OJ000322_19.0419.C23.o2.np	Method	AAT/NAP
Start	4763	End	10916
GI	7228457	Score	9223
Exons	4763..6313, 6380..7531, 7654..8489, 8553..10488, 10550..10916		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		
Seq. No.	54745	Seq. ID	OJ000322_19.0419.C23
Gene No.	114799	Strand	-
Start	4763	End	10916
Name	OJ000322_19.0419.C23.o6.tw	Method	TBLASTX:Wheat
Start	5270	End	5667
GI	none	Score	77
Exons	5270..5446, 5437..5667, 5461..5619, 5576..5659		
Seq. No.	54745	Seq. ID	OJ000322_19.0419.C23
Gene No.	114799	Strand	-
Start	4763	End	10916
Name	OJ000322_19.0419.C23.o2.tm	Method	TBLASTX:Maize
Start	5569	End	5893
GI	none	Score	110
Exons	5569..5751, 5582..5728, 5729..5893, 5730..5864		
Seq. No.	54745	Seq. ID	OJ000322_19.0419.C23
Gene No.	114799	Strand	-
Start	4763	End	10916
Name	OJ000322_19.0419.C23.o9.tw	Method	TBLASTX:Wheat
Start	5732	End	5995
GI	none	Score	78
Exons	5732..5995, 5733..5837		
Seq. No.	54745	Seq. ID	OJ000322_19.0419.C23
Gene No.	114799	Strand	-
Start	4763	End	10916
Name	OJ000322_19.0419.C23.o8.tw	Method	TBLASTX:Wheat
Start	6086	End	6398
GI	none	Score	75
Exons	6086..6346, 6087..6398		
Seq. No.	54745	Seq. ID	OJ000322_19.0419.C23
Gene No.	114799	Strand	-
Start	4763	End	10916
Name	OJ000322_19.0419.C23.o2.ts	Method	TBLASTX:Soybean
Start	6146	End	6712
GI	5666795	Score	68
Exons	6146..6346, 6401..6538, 6614..6712		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		

Seq. No.	54745	Seq. ID	OJ000322_19.0419.C23
Gene No.	114799	Strand	-
Start	4763	End	10916
Name	OJ000322_19.0419.C23.o3.tw	Method	TBLASTX:Wheat
Start	6401	End	6859
GI	none	Score	92
Exons	6401..6541, 6402..6539, 6597..6770, 6611..6859, 6611..6835		

Seq. No.	54745	Seq. ID	OJ000322_19.0419.C23
Gene No.	114799	Strand	-
Start	4763	End	10916
Name	OJ000322_19.0419.C23.o7.tw	Method	TBLASTX:Wheat
Start	7407	End	7696
GI	none	Score	79
Exons	7407..7565, 7409..7696, 7602..7691		

Seq. No.	54745	Seq. ID	OJ000322_19.0419.C23
Gene No.	114799	Strand	-
Start	4763	End	10916
Name	OJ000322_19.0419.C23.o1.ts	Method	TBLASTX:Soybean
Start	7460	End	7832
GI	none	Score	83
Exons	7460..7690, 7686..7832, 7690..7815		

Seq. No.	54745	Seq. ID	OJ000322_19.0419.C23
Gene No.	114799	Strand	-
Start	4763	End	10916
Name	OJ000322_19.0419.C23.o3.tm	Method	TBLASTX:Maize
Start	7583	End	7968
GI	none	Score	191
Exons	7583..7777, 7689..7967, 7690..7968		

Seq. No.	54745	Seq. ID	OJ000322_19.0419.C23
Gene No.	114799	Strand	-
Start	4763	End	10916
Name	OJ000322_19.0419.C23.o4.tw	Method	TBLASTX:Wheat
Start	7707	End	8018
GI	none	Score	186
Exons	7707..8018, 7720..8010		

Seq. No.	54745	Seq. ID	OJ000322_19.0419.C23
Gene No.	114799	Strand	-
Start	4763	End	10916
Name	OJ000322_19.0419.C23.o1.tm	Method	TBLASTX:Maize
Start	7995	End	8351
GI	none	Score	116
Exons	7995..8285, 7995..8351, 8005..8316		

Seq. No.	54745	Seq. ID	OJ000322_19.0419.C23
Gene No.	114799	Strand	-
Start	4763	End	10916
Name	OJ000322_19.0419.C23.o1.tw	Method	TBLASTX:Wheat
Start	8019	End	8481
GI	none	Score	385
Exons	8019..8480, 8020..8481		

Seq. No.	54745	Seq. ID	OJ000322_19.0419.C23

Gene No.	114799	Strand	-
Start	4763	End	10916
Name	OJ000322_19.0419.C23.o3.ts	Method	TBLASTX:Soybean
Start	8076	End	8441
GI	none	Score	117
Exons	8076..8210, 8217..8441		

Seq. No.	54745	Seq. ID	OJ000322_19.0419.C23
Gene No.	114799	Strand	-
Start	4763	End	10916
Name	OJ000322_19.0419.C23.o2.tw	Method	TBLASTX:Wheat
Start	8646	End	9132
GI	none	Score	168
Exons	8646..9131, 8650..8937, 8959..9132		

Seq. No.	54745	Seq. ID	OJ000322_19.0419.C23
Gene No.	114799	Strand	-
Start	4763	End	10916
Name	OJ000322_19.0419.C23.o5.tw	Method	TBLASTX:Wheat
Start	9870	End	10262
GI	none	Score	89
Exons	9870..10127, 9904..10143, 10110..10208, 10111..10191, 10215..10262		

Seq. No.	54745	Seq. ID	OJ000322_19.0419.C23
Gene No.	114799	Strand	-
Start	4763	End	10916
Name	OJ000322_19.0419.C23.o4.tm	Method	TBLASTX:Maize
Start	9972	End	10257
GI	none	Score	103
Exons	9972..10220, 9973..10257		

Seq. No.	54746	Seq. ID	OJ000322_19.0419.C24
Gene No.	114800	Strand	+
Start	888	End	1404
Name	OJ000322_19.0419.C24.o1.tm	Method	TBLASTX:Maize
Start	887	End	1225
GI	none	Score	207
Exons	887..1060, 888..1067, 888..1055, 1061..1225, 1061..1198		

Seq. No.	54746	Seq. ID	OJ000322_19.0419.C24
Gene No.	114800	Strand	+
Start	888	End	1404
Name	OJ000322_19.0419.C24.o1.gp	Method	AAT/GAP
Start	888	End	1404
GI	85984_1.R1084	Score	915
Exons	888..1404		
GI Descrip.	'4240122/dbj|BAA74840| 1.0e-09 (AB007802) cytochrome b5 [Arabidopsis thaliana]'		

Seq. No.	54746	Seq. ID	OJ000322_19.0419.C24
Gene No.	114800	Strand	+
Start	888	End	1404
Name	OJ000322_19.0419.C24.o1.gs	Method	GENSCAN
Start	889	End	1172
GI	none	Score	.55
Exons	889..1172		

Seq. No.	54746	Seq. ID	OJ000322_19.0419.C24
Gene No.	114800	Strand	+
Start	888	End	1404
Name	OJ000322_19.0419.C24.o1.np	Method	AAT/NAP
Start	889	End	1166
GI	1345881	Score	85
Exons	889..1166		
GI Descrip.	CYTOCHROME B5 gi|1076743|pir||S46307 cytochrome b5 - rice gi|414705|emb|CAA53366| (X75670) cytochrome b5 [Oryza sativa]		

Seq. No.	54747	Seq. ID	OJ000322_19.0419.C25
Gene No.	114801	Strand	+
Start	1	End	1089
Name	OJ000322_19.0419.C25.o1.np	Method	AAT/NAP
Start	1	End	1089
GI	6539553	Score	1814
Exons	1..1089		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi|6539590|dbj|BAA88206.1| (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	54747	Seq. ID	OJ000322_19.0419.C25
Gene No.	114801	Strand	+
Start	1	End	1089
Name	OJ000322_19.0419.C25.o1.tw	Method	TBLASTX:Wheat
Start	13	End	271
GI	none	Score	239
Exons	13..270, 26..271		

Seq. No.	54747	Seq. ID	OJ000322_19.0419.C25
Gene No.	114801	Strand	+
Start	1	End	1089
Name	OJ000322_19.0419.C25.o1.tm	Method	TBLASTX:Maize
Start	26	End	333
GI	none	Score	362
Exons	26..331, 28..333		

Seq. No.	54747	Seq. ID	OJ000322_19.0419.C25
Gene No.	114801	Strand	+
Start	1	End	1089
Name	OJ000322_19.0419.C25.o2.tm	Method	TBLASTX:Maize
Start	831	End	1089
GI	none	Score	260
Exons	831..1088, 838..1089, 839..1087, 858..1088		

Seq. No.	54748	Seq. ID	OJ000322_19.0419.C27
Gene No.	114802	Strand	+
Start	1	End	719
Name	OJ000322_19.0419.C27.o1.np	Method	AAT/NAP
Start	1	End	719
GI	7489012	Score	474
Exons	1..719		
GI Descrip.	Hcr9-0 protein - tomato gi|2792190|emb|CAA05279.1| (AJ002237) Hcr9-0 [Lycopersicon esculentum]		

Seq. No.	54748	Seq. ID	OJ000322_19.0419.C27
Gene No.	114802	Strand	+
Start	1	End	719
Name	OJ000322_19.0419.C27.o1.tm	Method	TBLASTX:Maize
Start	1	End	514
GI	none	Score	103
Exons	1..192, 3..194, 3..185, 4..192, 5..199, 206..292, 226..291, 449..514		

Seq. No.	54748	Seq. ID	OJ000322_19.0419.C27
Gene No.	114802	Strand	+
Start	1	End	719
Name	OJ000322_19.0419.C27.o1.ts	Method	TBLASTX:Soybean
Start	2	End	676
GI	none	Score	188
Exons	2..199, 8..181, 8..199, 80..199, 239..349, 239..349, 386..580, 415..672, 443..571, 443..547, 452..505, 466..642, 467..568, 632..676		

Seq. No.	54748	Seq. ID	OJ000322_19.0419.C27
Gene No.	114802	Strand	+
Start	1	End	719
Name	OJ000322_19.0419.C27.o1.tc	Method	TBLASTX:Cress
Start	20	End	594
GI	none	Score	80
Exons	20..148, 35..208, 46..207, 65..214, 224..307, 241..300, 460..594, 461..571		

Seq. No.	54748	Seq. ID	OJ000322_19.0419.C27
Gene No.	114802	Strand	+
Start	1	End	719
Name	OJ000322_19.0419.C27.o1.gs	Method	GENSCAN
Start	38	End	632
GI	none	Score	.46
Exons	38..632		

Seq. No.	54748	Seq. ID	OJ000322_19.0419.C27
Gene No.	114802	Strand	+
Start	1	End	719
Name	OJ000322_19.0419.C27.o1.gp	Method	AAT/GAP
Start	279	End	719
GI	LIB3432-050-P1-K1-C9	Score	846
Exons	279..719		
GI Descrip.	'2792188/emb|CAA05276| 3.0e-25 (AJ002236) Hcr9-9E [Lycopersicon pimpinellifolium]'		

Seq. No.	54749	Seq. ID	OJ000322_19.0419.C28
Gene No.	114803	Strand	-
Start	1	End	85
Name	OJ000322_19.0419.C28.o1.gp	Method	AAT/GAP
Start	1	End	85
GI	85984_1.R1084	Score	136
Exons	1..85		
GI Descrip.	'4240122/dbj|BAA74840| 1.0e-09 (AB007802) cytochrome b5 [Arabidopsis thaliana]'		

Seq. No.	54750	Seq. ID	OJ000322_19.0419.C30

Gene No.	114804	Strand	+
Start	1	End	2394
Name	OJ000322_19.0419.C30.o1.np	Method	AAT/NAP
Start	1	End	2394
GI	7248394	Score	278
Exons	1..105, 405..738, 1122..1434, 2323..2394		
GI Descrip.	(AP001389) ESTs C97394(C60113),AU075824(R0165),D38985(R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15O11 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)		

Seq. No.	54750	Seq. ID	OJ000322_19.0419.C30
Gene No.	114804	Strand	+
Start	1	End	2394
Name	OJ000322_19.0419.C30.o1.gs	Method	GENSCAN
Start	89	End	2015
GI	none	Score	.43
Exons	89..326, 1178..1434, 1618..1760, 1927..2015		

Seq. No.	54750	Seq. ID	OJ000322_19.0419.C30
Gene No.	114805	Strand	+
Start	2856	End	3114
Name	OJ000322_19.0419.C30.o1.gp	Method	AAT/GAP
Start	2856	End	3114
GI	101595_1.R1084	Score	481
Exons	2856..3114		
GI Descrip.	'3047066 3.0e-15 (AF058825) contains similarity to retrovirus-related POL polyproteins [Arabidopsis thaliana]'		

Seq. No.	54750	Seq. ID	OJ000322_19.0419.C30
Gene No.	114806	Strand	+
Start	7988	End	9111
Name	OJ000322_19.0419.C30.o4.gs	Method	GENSCAN
Start	7988	End	9111
GI	none	Score	.81
Exons	7988..8112, 8197..8245, 8479..8598, 8926..9111		

Seq. No.	54750	Seq. ID	OJ000322_19.0419.C30
Gene No.	114807	Strand	-
Start	1	End	3852
Name	OJ000322_19.0419.C30.o3.np	Method	AAT/NAP
Start	1	End	3156
GI	6630696	Score	487
Exons	1..31, 2851..3156		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	54750	Seq. ID	OJ000322_19.0419.C30
Gene No.	114807	Strand	-
Start	1	End	3852
Name	OJ000322_19.0419.C30.o2.gs	Method	GENSCAN
Start	2794	End	3852
GI	none	Score	.91
Exons	2794..3504, 3550..3852		

Seq. No.	54750	Seq. ID	OJ000322_19.0419.C30
Gene No.	114808	Strand	-
Start	10107	End	10178
Name	OJ000322_19.0419.C30.o1.tm	Method	TBLASTX:Maize
Start	2857	End	3114
GI	none	Score	99
Exons	2857..3114, 2863..2985, 2876..3067		

Seq. No.	54750	Seq. ID	OJ000322_19.0419.C30
Gene No.	114808	Strand	-
Start	10107	End	10178
Name	OJ000322_19.0419.C30.o1.tw	Method	TBLASTX:Wheat
Start	2865	End	3262
GI	none	Score	149
Exons	2865..3047, 2866..3150, 2876..3076, 3127..3261, 3164..3262		

Seq. No.	54750	Seq. ID	OJ000322_19.0419.C30
Gene No.	114808	Strand	-
Start	10107	End	10178
Name	OJ000322_19.0419.C30.o5.gs	Method	GENSCAN
Start	10107	End	10178
GI	none	Score	.8
Exons	10107..10178		

Seq. No.	54751	Seq. ID	OJ000322_19.0419.C31
Gene No.	114809	Strand	+
Start	221	End	354
Name	OJ000322_19.0419.C31.o1.gs	Method	GENSCAN
Start	221	End	354
GI	none	Score	.75
Exons	221..354		

Seq. No.	54752	Seq. ID	OJ000322_19.0419.C32
Gene No.	114810	Strand	-
Start	1223	End	2008
Name	OJ000322_19.0419.C32.o1.np	Method	AAT/NAP
Start	381	End	2008
GI	6539553	Score	243
Exons	381..759, 1918..2008		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi|6539590|dbj|BAA88206.1| (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	54752	Seq. ID	OJ000322_19.0419.C32
Gene No.	114810	Strand	-
Start	1223	End	2008
Name	OJ000322_19.0419.C32.o1.gs	Method	GENSCAN
Start	1223	End	1393
GI	none	Score	.4
Exons	1223..1393		

Seq. No.	54753	Seq. ID	OJ000322_19.0419.C35
Gene No.	114811	Strand	+
Start	87	End	484
Name	OJ000322_19.0419.C35.o1.gs	Method	GENSCAN
Start	87	End	484

GI	none	Score	.72
Exons	87..135, 456..484		

Seq. No.	54754	Seq. ID	OJ000322_19.0419.C36
Gene No.	114812	Strand	+
Start	929	End	1091
Name	OJ000322_19.0419.C36.o1.gs	Method	GENSCAN
Start	929	End	1091
GI	none	Score	.42
Exons	929..1091		

Seq. No.	54755	Seq. ID	OJ000322_19.0419.C37
Gene No.	114813	Strand	+
Start	1	End	1596
Name	OJ000322_19.0419.C37.o1.np	Method	AAT/NAP
Start	1	End	1596
GI	7340860	Score	98
Exons	1..206, 1565..1596		
GI Descrip.	(AP001551) EST D24084(R1183) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	54755	Seq. ID	OJ000322_19.0419.C37
Gene No.	114813	Strand	+
Start	1	End	1596
Name	OJ000322_19.0419.C37.o1.gs	Method	GENSCAN
Start	828	End	1071
GI	none	Score	.88
Exons	828..914, 964..1071		

Seq. No.	54755	Seq. ID	OJ000322_19.0419.C37
Gene No.	114814	Strand	-
Start	2143	End	2313
Name	OJ000322_19.0419.C37.o2.gs	Method	GENSCAN
Start	2143	End	2313
GI	none	Score	.5
Exons	2143..2313		

Seq. No.	54756	Seq. ID	OJ000322_19.0419.C39
Gene No.	114815	Strand	-
Start	1	End	1436
Name	OJ000322_19.0419.C39.o1.np	Method	AAT/NAP
Start	1	End	1436
GI	6539553	Score	1867
Exons	1..1212, 1382..1436		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi|6539590|dbj|BAA88206.1| (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	54756	Seq. ID	OJ000322_19.0419.C39
Gene No.	114815	Strand	-
Start	1	End	1436
Name	OJ000322_19.0419.C39.o2.tw	Method	TBLASTX:Wheat
Start	12	End	203
GI	none	Score	110
Exons	12..131, 12..131, 19..132, 19..132, 147..203, 151..201		

Seq. No.	54756	Seq. ID	OJ000322_19.0419.C39
Gene No.	114815	Strand	-
Start	1	End	1436
Name	OJ000322_19.0419.C39.o1.tm	Method	TBLASTX:Maize
Start	78	End	417
GI	none	Score	206
Exons	78..416, 79..417		

Seq. No.	54756	Seq. ID	OJ000322_19.0419.C39
Gene No.	114815	Strand	-
Start	1	End	1436
Name	OJ000322_19.0419.C39.o1.gs	Method	GENSCAN
Start	128	End	1246
GI	none	Score	.42
Exons	128..398, 519..841, 862..1246		

Seq. No.	54756	Seq. ID	OJ000322_19.0419.C39
Gene No.	114815	Strand	-
Start	1	End	1436
Name	OJ000322_19.0419.C39.o1.tw	Method	TBLASTX:Wheat
Start	204	End	973
GI	none	Score	48
Exons	204..275, 426..632, 436..558,	627..854, 651..818, 851..973	

Seq. No.	54756	Seq. ID	OJ000322_19.0419.C39
Gene No.	114815	Strand	-
Start	1	End	1436
Name	OJ000322_19.0419.C39.o2.ts	Method	TBLASTX:Soybean
Start	228	End	573
GI	none	Score	124
Exons	228..572, 373..573		

Seq. No.	54756	Seq. ID	OJ000322_19.0419.C39
Gene No.	114815	Strand	-
Start	1	End	1436
Name	OJ000322_19.0419.C39.o2.tm	Method	TBLASTX:Maize
Start	507	End	973
GI	none	Score	59
Exons	507..854, 610..816, 654..836,	845..973, 898..957	

Seq. No.	54756	Seq. ID	OJ000322_19.0419.C39
Gene No.	114815	Strand	-
Start	1	End	1436
Name	OJ000322_19.0419.C39.o1.ts	Method	TBLASTX:Soybean
Start	642	End	1105
GI	5509260	Score	43
Exons	642..854, 787..819, 827..1105,	879..1013	
GI Descrip.	-		

Seq. No.	54756	Seq. ID	OJ000322_19.0419.C39
Gene No.	114815	Strand	-
Start	1	End	1436
Name	OJ000322_19.0419.C39.o1.tc	Method	TBLASTX:Cress
Start	753	End	1018
GI	none	Score	101
Exons	753..854, 848..1012, 867..1013,	871..1014, 881..1018	

Seq. No.	54756	Seq. ID	OJ000322_19.0419.C39
Gene No.	114815	Strand	-
Start	1	End	1436
Name	OJ000322_19.0419.C39.o3.tw	Method	TBLASTX:Wheat
Start	1025	End	1212
GI	none	Score	139
Exons	1025..1165, 1029..1202, 1030..1212		

Seq. No.	54756	Seq. ID	OJ000322_19.0419.C39
Gene No.	114815	Strand	-
Start	1	End	1436
Name	OJ000322_19.0419.C39.o1.gp	Method	AAT/GAP
Start	1114	End	1436
GI	61605_3.R1084	Score	444
Exons	1114..1436		
GI Descrip.	'1402920/emb|CAA66965| 2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	54757	Seq. ID	OJ000322_19.0419.C40
Gene No.	114816	Strand	+
Start	4600	End	6389
Name	OJ000322_19.0419.C40.o2.np	Method	AAT/NAP
Start	4600	End	6389
GI	5852179	Score	440
Exons	4600..4620, 5610..5836, 5911..6152, 6351..6389		
GI Descrip.	(AL117265) zhb0009.1 [Oryza sativa]		

Seq. No.	54757	Seq. ID	OJ000322_19.0419.C40
Gene No.	114817	Strand	-
Start	1	End	3709
Name	OJ000322_19.0419.C40.o1.np	Method	AAT/NAP
Start	1	End	3709
GI	6630696	Score	2828
Exons	1..24, 1976..3709		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	54757	Seq. ID	OJ000322_19.0419.C40
Gene No.	114817	Strand	-
Start	1	End	3709
Name	OJ000322_19.0419.C40.o1.tw	Method	TBLASTX:Wheat
Start	1958	End	2602
GI	none	Score	58
Exons	1958..2029, 1974..2036, 1976..2602, 2097..2594		

Seq. No.	54757	Seq. ID	OJ000322_19.0419.C40
Gene No.	114817	Strand	-
Start	1	End	3709
Name	OJ000322_19.0419.C40.o1.ts	Method	TBLASTX:Soybean
Start	2252	End	2650
GI	none	Score	109
Exons	2252..2425, 2415..2648, 2420..2650		

Seq. No.	54757	Seq. ID	OJ000322_19.0419.C40
Gene No.	114817	Strand	-
Start	1	End	3709

Name	OJ000322_19.0419.C40.o2.tm	Method	TBLASTX:Maize
Start	2438	End	2902
GI	none	Score	74
Exons	2438..2902, 2511..2663		

Seq. No.	54757	Seq. ID	OJ000322_19.0419.C40
Gene No.	114817	Strand	-
Start	1	End	3709
Name	OJ000322_19.0419.C40.o2.tw	Method	TBLASTX:Wheat
Start	2603	End	2941
GI	none	Score	85
Exons	2603..2941, 2604..2831		

Seq. No.	54757	Seq. ID	OJ000322_19.0419.C40
Gene No.	114817	Strand	-
Start	1	End	3709
Name	OJ000322_19.0419.C40.o2.ts	Method	TBLASTX:Soybean
Start	2660	End	3040
GI	none	Score	88
Exons	2660..2908, 2891..3040		

Seq. No.	54757	Seq. ID	OJ000322_19.0419.C40
Gene No.	114817	Strand	-
Start	1	End	3709
Name	OJ000322_19.0419.C40.o1.tm	Method	TBLASTX:Maize
Start	3014	End	3367
GI	none	Score	37
Exons	3014..3055, 3021..3050, 3084..3275, 3085..3213, 3086..3244, 3231..3359, 3237..3359, 3239..3361, 3250..3360, 3254..3367		

Seq. No.	54758	Seq. ID	OJ000322_19.0419.C42
Gene No.	114818	Strand	+
Start	1	End	1271
Name	OJ000322_19.0419.C42.o1.np	Method	AAT/NAP
Start	1	End	1271
GI	7488988	Score	331
Exons	1..147, 232..1271		
GI Descrip.	disease resistance protein Hcr2-5D - tomato gi|3894393|gb|AAC78596.1| (AF053998) Hcr2-5D [Lycopersicon esculentum]		

Seq. No.	54758	Seq. ID	OJ000322_19.0419.C42
Gene No.	114818	Strand	+
Start	1	End	1271
Name	OJ000322_19.0419.C42.o1.gs	Method	GENSCAN
Start	81	End	627
GI	none	Score	.59
Exons	81..444, 490..627		

Seq. No.	54758	Seq. ID	OJ000322_19.0419.C42
Gene No.	114818	Strand	+
Start	1	End	1271
Name	OJ000322_19.0419.C42.o1.tc	Method	TBLASTX:Cress
Start	109	End	896
GI	none	Score	39
Exons	109..159, 207..452, 210..638, 219..830, 237..791, 240..338, 477..896, 492..830, 495..833, 498..830, 507..896, 527..703,		

579..830

Seq. No.	54758	Seq. ID	OJ000322_19.0419.C42
Gene No.	114818	Strand	+
Start	1	End	1271
Name	OJ000322_19.0419.C42.p1.ts	Method	TBLASTX:Soybean
Start	207	End	1271
GI	none	Score	66
Exons	207..452, 237..341, 273..824, 1071..1166, 1167..1271	477..824, 495..752, 1056..1130,	

Seq. No.	54758	Seq. ID	OJ000322_19.0419.C42
Gene No.	114818	Strand	+
Start	1	End	1271
Name	OJ000322_19.0419.C42.o1.tm	Method	TBLASTX:Maize
Start	323	End	707
GI	none	Score	197
Exons	323..580, 324..596, 346..633,	495..671, 612..707, 614..706	

Seq. No.	54759	Seq. ID	OJ000322_19.0419.C43
Gene No.	114819	Strand	+
Start	1	End	1312
Name	OJ000322_19.0419.C43.o1.np	Method	AAT/NAP
Start	1	End	1312
GI	2792187	Score	248
Exons	1..449, 1232..1312		
GI Descrip.	(AJ002236) Hcr9-9D [Lycopersicon pimpinellifolium]		

Seq. No.	54759	Seq. ID	OJ000322_19.0419.C43
Gene No.	114819	Strand	+
Start	1	End	1312
Name	OJ000322_19.0419.C43.o1.ts	Method	TBLASTX:Soybean
Start	5	End	418
GI	none	Score	242
Exons	5..313, 6..341, 127..351, 147..233, 237..326, 386..418		

Seq. No.	54760	Seq. ID	OJ000322_19.0419.C44
Gene No.	114820	Strand	+
Start	178	End	309
Name	OJ000322_19.0419.C44.o1.gs	Method	GENSCAN
Start	178	End	309
GI	none	Score	.77
Exons	178..309		

Seq. No.	54760	Seq. ID	OJ000322_19.0419.C44
Gene No.	114821	Strand	+
Start	790	End	2402
Name	OJ000322_19.0419.C44.o1.np	Method	AAT/NAP
Start	790	End	2402
GI	4512705	Score	130
Exons	790..840, 2110..2402		
GI Descrip.	(AC006569) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	54760	Seq. ID	OJ000322_19.0419.C44
Gene No.	114822	Strand	-
Start	1862	End	2856
Name	OJ000322_19.0419.C44.o2.gs	Method	GENSCAN

Start	1862	End	2856
GI	none	Score	.58
Exons	1862..1917, 1975..2172, 2428..2549, 2789..2856		

Seq. No.	54760	Seq. ID	OJ000322_19.0419.C44
Gene No.	114822	Strand	-
Start	1862	End	2856
Name	OJ000322_19.0419.C44.o1.tm	Method	TBLASTX:Maize
Start	1991	End	2435
GI	none	Score	108
Exons	1991..2071, 2002..2070, 2113..2226, 2116..2226, 2168..2233, 2244..2351, 2249..2353, 2285..2401, 2361..2435		

Seq. No.	54760	Seq. ID	OJ000322_19.0419.C44
Gene No.	114822	Strand	-
Start	1862	End	2856
Name	OJ000322_19.0419.C44.o1.ts	Method	TBLASTX:Soybean
Start	2113	End	2353
GI	none	Score	101
Exons	2113..2226, 2249..2353, 2250..2351		

Seq. No.	54761	Seq. ID	OJ000322_19.0419.C45
Gene No.	114823	Strand	-
Start	32	End	1775
Name	OJ000322_19.0419.C45.o1.gs	Method	GENSCAN
Start	32	End	1427
GI	none	Score	.55
Exons	32..117, 1307..1427		

Seq. No.	54761	Seq. ID	OJ000322_19.0419.C45
Gene No.	114823	Strand	-
Start	32	End	1775
Name	OJ000322_19.0419.C45.o1.np	Method	AAT/NAP
Start	915	End	1775
GI	6630696	Score	1427
Exons	915..1775		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	54761	Seq. ID	OJ000322_19.0419.C45
Gene No.	114823	Strand	-
Start	32	End	1775
Name	OJ000322_19.0419.C45.o1.tw	Method	TBLASTX:Wheat
Start	1051	End	1526
GI	none	Score	385
Exons	1051..1437, 1053..1436, 1452..1526, 1453..1521, 1466..1525		

Seq. No.	54761	Seq. ID	OJ000322_19.0419.C45
Gene No.	114823	Strand	-
Start	32	End	1775
Name	OJ000322_19.0419.C45.o1.ts	Method	TBLASTX:Soybean
Start	1164	End	1538
GI	none	Score	59
Exons	1164..1388, 1258..1389, 1407..1532, 1407..1538		

Seq. No.	54761	Seq. ID	OJ000322_19.0419.C45

Gene No.	114823	Strand	-
Start	32	End	1775
Name	OJ000322_19.0419.C45.o1.tm	Method	TBLASTX:Maize
Start	1382	End	1754
GI	none	Score	62
Exons	1382..1543, 1383..1754, 1384..1731		

Seq. No.	54762	Seq. ID	OJ000322_19.0419.C46
Gene No.	114824	Strand	+
Start	1	End	472
Name	OJ000322_19.0419.C46.o1.np	Method	AAT/NAP
Start	1	End	472
GI	6498434	Score	74
Exons	1..25, 373..472		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	54762	Seq. ID	OJ000322_19.0419.C46
Gene No.	114824	Strand	+
Start	1	End	472
Name	OJ000322_19.0419.C46.o1.gs	Method	GENSCAN
Start	58	End	128
GI	none	Score	.75
Exons	58..128		

Seq. No.	54763	Seq. ID	OJ000322_19.0419.C48
Gene No.	114825	Strand	-
Start	338	End	719
Name	OJ000322_19.0419.C48.o1.gs	Method	GENSCAN
Start	338	End	719
GI	none	Score	.54
Exons	338..387, 581..719		

Seq. No.	54763	Seq. ID	OJ000322_19.0419.C48
Gene No.	114826	Strand	-
Start	879	End	1003
Name	OJ000322_19.0419.C48.o1.np	Method	AAT/NAP
Start	879	End	1003
GI	7340920	Score	158
Exons	879..1003		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	54764	Seq. ID	OJ000322_19.0419.C49
Gene No.	114827	Strand	+
Start	116	End	244
Name	OJ000322_19.0419.C49.o1.gs	Method	GENSCAN
Start	116	End	244
GI	none	Score	.94
Exons	116..244		

Seq. No.	54764	Seq. ID	OJ000322_19.0419.C49
Gene No.	114828	Strand	-
Start	496	End	982
Name	OJ000322_19.0419.C49.o2.gs	Method	GENSCAN
Start	496	End	982
GI	none	Score	.44
Exons	496..554, 781..982		

Seq. No.	54765	Seq. ID	OJ000112_15.0426.C4
Gene No.	114829	Strand	+
Start	564	End	2144
Name	OJ000112_15.0426.C4.o1.gs	Method	GENSCAN
Start	564	End	2144
GI	none	Score	.47
Exons	564..665, 986..1054, 1060..1132, 1458..1653, 1693..1918, 1986..2144		

Seq. No.	54765	Seq. ID	OJ000112_15.0426.C4
Gene No.	114829	Strand	+
Start	564	End	2144
Name	OJ000112_15.0426.C4.o1.np	Method	AAT/NAP
Start	572	End	1841
GI	133799	Score	139
Exons	572..665, 1729..1841		
GI Descrip.	CHLOROPLAST 30S RIBOSOMAL PROTEIN S15 gi|70994|pir||R3RZ15 ribosomal protein S15 - rice chloroplast gi|12045|emb|CAA33948| (X15901) ribosomal protein S15 [Oryza sativa] gi|12057|emb|CAA33912| (X15901) ribosomal protein S15 [Oryza sativa] gi|226665|prf||1603356CR ribosomal protein S15 [Oryza sativa]		

Seq. No.	54765	Seq. ID	OJ000112_15.0426.C4
Gene No.	114830	Strand	-
Start	118	End	638
Name	OJ000112_15.0426.C4.o1.gp	Method	AAT/GAP
Start	118	End	638
GI	5886_1.R1084	Score	661
Exons	118..145, 293..638		
GI Descrip.	'11957/emb|X15901|CHOSXX 0.0e+00 Rice complete chloroplast genome'		

Seq. No.	54765	Seq. ID	OJ000112_15.0426.C4
Gene No.	114830	Strand	-
Start	118	End	638
Name	OJ000112_15.0426.C4.o1.tm	Method	TBLASTX:Maize
Start	256	End	524
GI	none	Score	112
Exons	256..474, 267..368, 270..476, 293..475, 373..423, 373..423, 465..524, 465..524		

Seq. No.	54766	Seq. ID	OJ000112_15.0426.C6
Gene No.	114831	Strand	+
Start	100	End	366
Name	OJ000112_15.0426.C6.o1.gs	Method	GENSCAN
Start	100	End	366
GI	none	Score	1
Exons	100..366		

Seq. No.	54767	Seq. ID	OJ000112_15.0426.C7
Gene No.	114832	Strand	+
Start	150	End	1430
Name	OJ000112_15.0426.C7.o1.gs	Method	GENSCAN
Start	150	End	1430
GI	none	Score	.58
Exons	150..200, 774..865, 1084..1270, 1404..1430		

Seq. No.	54767	Seq. ID	OJ000112_15.0426.C7
Gene No.	114833	Strand	-
Start	1186	End	2348
Name	OJ000112_15.0426.C7.o1.np	Method	AAT/NAP
Start	1186	End	2348
GI	3746060	Score	590
Exons	1186..1293, 1812..2348		
GI Descrip.	(AC005311) unknown protein [Arabidopsis thaliana]		

Seq. No.	54767	Seq. ID	OJ000112_15.0426.C7
Gene No.	114833	Strand	-
Start	1186	End	2348
Name	OJ000112_15.0426.C7.o2.gs	Method	GENSCAN
Start	1658	End	2223
GI	none	Score	.61
Exons	1658..2223		

Seq. No.	54767	Seq. ID	OJ000112_15.0426.C7
Gene No.	114833	Strand	-
Start	1186	End	2348
Name	OJ000112_15.0426.C7.o2.tm	Method	TBLASTX:Maize
Start	1811	End	1952
GI	none	Score	44
Exons	1811..1951, 1821..1859, 1908..1952		

Seq. No.	54767	Seq. ID	OJ000112_15.0426.C7
Gene No.	114833	Strand	-
Start	1186	End	2348
Name	OJ000112_15.0426.C7.o1.tc	Method	TBLASTX:Cress
Start	1814	End	2209
GI	none	Score	36
Exons	1814..2209, 1824..1859, 1911..1991, 1964..2107, 2049..2201		

Seq. No.	54767	Seq. ID	OJ000112_15.0426.C7
Gene No.	114833	Strand	-
Start	1186	End	2348
Name	OJ000112_15.0426.C7.o1.ts	Method	TBLASTX:Soybean
Start	1820	End	2213
GI	none	Score	88
Exons	1820..2212, 1824..1991, 2046..2213		

Seq. No.	54767	Seq. ID	OJ000112_15.0426.C7
Gene No.	114833	Strand	-
Start	1186	End	2348
Name	OJ000112_15.0426.C7.o1.tm	Method	TBLASTX:Maize
Start	1952	End	2213
GI	none	Score	64
Exons	1952..2212, 1953..2000, 1964..2104, 2043..2213		

Seq. No.	54768	Seq. ID	OJ000112_15.0426.C8
Gene No.	114834	Strand	+
Start	12	End	4333
Name	OJ000112_15.0426.C8.o1.gs	Method	GENSCAN
Start	12	End	1832
GI	none	Score	.54
Exons	12..126, 1651..1689, 1741..1832		

Seq. No.	54768	Seq. ID	OJ000112_15.0426.C8
Gene No.	114834	Strand	+
Start	12	End	4333
Name	OJ000112_15.0426.C8.o1.np	Method	AAT/NAP
Start	1626	End	4067
GI	7487683	Score	680
Exons	1626..1689, 2909..3484, 3761..3845, 3939..4067		
GI Descrip.	hypothetical protein T5F17.40 - Arabidopsis thaliana gi|7269714|emb|CAB81447.1| (AL161573) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	54768	Seq. ID	OJ000112_15.0426.C8
Gene No.	114834	Strand	+
Start	12	End	4333
Name	OJ000112_15.0426.C8.o1.gp	Method	AAT/GAP
Start	2800	End	3134
GI	2312218	Score	370
Exons	2800..3134		

Seq. No.	54768	Seq. ID	OJ000112_15.0426.C8
Gene No.	114834	Strand	+
Start	12	End	4333
Name	OJ000112_15.0426.C8.o2.gs	Method	GENSCAN
Start	2832	End	4333
GI	none	Score	.96
Exons	2832..3484, 3761..3845, 3894..4050, 4230..4333		

Seq. No.	54768	Seq. ID	OJ000112_15.0426.C8
Gene No.	114835	Strand	+
Start	8828	End	11187
Name	OJ000112_15.0426.C8.o4.gs	Method	GENSCAN
Start	8828	End	11187
GI	none	Score	.79
Exons	8828..8840, 9469..9789, 10831..10868, 11101..11187		

Seq. No.	54768	Seq. ID	OJ000112_15.0426.C8
Gene No.	114836	Strand	-
Start	5668	End	8616
Name	OJ000112_15.0426.C8.o3.gs	Method	GENSCAN
Start	5668	End	7530
GI	none	Score	.99
Exons	5668..6132, 6715..7530		

Seq. No.	54768	Seq. ID	OJ000112_15.0426.C8
Gene No.	114836	Strand	-
Start	5668	End	8616
Name	OJ000112_15.0426.C8.o2.np	Method	AAT/NAP
Start	5758	End	8616
GI	6808021	Score	173
Exons	5758..6152, 6697..6975, 8562..8616		
GI Descrip.	(AL137448) hypothetical protein [Homo sapiens]		

Seq. No.	54768	Seq. ID	OJ000112_15.0426.C8
Gene No.	114837	Strand	-
Start	14409	End	15724
Name	OJ000112_15.0426.C8.o1.tm	Method	TBLASTX:Maize

Start	3266	End	4050
GI	none	Score	390
Exons	3266..3484, 3267..3485, 3758..3844, 3759..3845, 3760..3870, 3873..4049, 3938..4033, 3940..4050		

Seq. No.	54768	Seq. ID	OJ000112_15.0426.C8
Gene No.	114837	Strand	-
Start	14409	End	15724
Name	OJ000112_15.0426.C8.o2.tm	Method	TBLASTX:Maize
Start	5672	End	5889
GI	none	Score	125
Exons	5672..5818, 5731..5889, 5746..5889, 5757..5840		

Seq. No.	54768	Seq. ID	OJ000112_15.0426.C8
Gene No.	114837	Strand	-
Start	14409	End	15724
Name	OJ000112_15.0426.C8.o3.tm	Method	TBLASTX:Maize
Start	7231	End	7428
GI	none	Score	156
Exons	7231..7383, 7232..7384, 7384..7428		

Seq. No.	54768	Seq. ID	OJ000112_15.0426.C8
Gene No.	114837	Strand	-
Start	14409	End	15724
Name	OJ000112_15.0426.C8.o5.gs	Method	GENSCAN
Start	14409	End	15724
GI	none	Score	.48
Exons	14409..14607, 15535..15724		

Seq. No.	54769	Seq. ID	OJ000112_15.0426.C9
Gene No.	114838	Strand	+
Start	1	End	514
Name	OJ000112_15.0426.C9.o1.np	Method	AAT/NAP
Start	1	End	497
GI	3894191	Score	321
Exons	1..497		
GI Descrip.	(AC005662) unknown protein [Arabidopsis thaliana]		

Seq. No.	54769	Seq. ID	OJ000112_15.0426.C9
Gene No.	114838	Strand	+
Start	1	End	514
Name	OJ000112_15.0426.C9.o1.ts	Method	TBLASTX:Soybean
Start	3	End	491
GI	none	Score	171
Exons	3..209, 225..320, 351..410, 432..491		

Seq. No.	54769	Seq. ID	OJ000112_15.0426.C9
Gene No.	114838	Strand	+
Start	1	End	514
Name	OJ000112_15.0426.C9.o1.tc	Method	TBLASTX:Cress
Start	66	End	514
GI	none	Score	118
Exons	66..197, 213..431, 233..367, 435..500, 443..514		

Seq. No.	54769	Seq. ID	OJ000112_15.0426.C9
Gene No.	114838	Strand	+
Start	1	End	514

Name	OJ000112_15.0426.C9.o1.gp	Method	AAT/GAP
Start	164	End	426
GI	3548963	Score	434
Exons	164..426		

Seq. No.	54769	Seq. ID	OJ000112_15.0426.C9
Gene No.	114838	Strand	+
Start	1	End	514
Name	OJ000112_15.0426.C9.o1.gs	Method	GENSCAN
Start	171	End	509
GI	none	Score	.98
Exons	171..509		

Seq. No.	54770	Seq. ID	OJ000112_15.0426.C10
Gene No.	114839	Strand	+
Start	4559	End	6630
Name	OJ000112_15.0426.C10.o1.np	Method	AAT/NAP
Start	4559	End	6621
GI	7431178	Score	1412
Exons	4559..4653, 5503..6621		
GI Descrip.	malate dehydrogenase (EC 1.1.1.37) precursor - alfalfa gi|2827084|gb|AAB99757.1| (AF020273) malate dehydrogenase precursor [Medicago sativa]		

Seq. No.	54770	Seq. ID	OJ000112_15.0426.C10
Gene No.	114839	Strand	+
Start	4559	End	6630
Name	OJ000112_15.0426.C10.o3.gs	Method	GENSCAN
Start	5441	End	6630
GI	none	Score	.42
Exons	5441..5867, 6035..6630		

Seq. No.	54770	Seq. ID	OJ000112_15.0426.C10
Gene No.	114840	Strand	+
Start	7118	End	7433
Name	OJ000112_15.0426.C10.o1.gp	Method	AAT/GAP
Start	7118	End	7433
GI	uC-osf1M2020116g11a1	Score	620
Exons	7118..7433		
GI Descrip.	'5803272/dbj|BAA83582.1| 3.0e-69 (AP000399) ESTs AU055950(S20175),C73125(E2952), AU055951(S20175) correspond to a region of the predicted gene; similar to acyl-ACP thioesterase (U92878) [Oryza sativa]'		

Seq. No.	54770	Seq. ID	OJ000112_15.0426.C10
Gene No.	114841	Strand	+
Start	10648	End	11108
Name	OJ000112_15.0426.C10.o2.gp	Method	AAT/GAP
Start	10648	End	11108
GI	LIB3431-011-P1-N1-F11	Score	918
Exons	10648..11108		
GI Descrip.	'4115931/gb|AAD03441.1| 2.0e-18 (AF118223) contains similarity to Guillardia theta ABC transporter (GB:AF041468) [Arabidopsis thaliana]'		

Seq. No.	54770	Seq. ID	OJ000112_15.0426.C10
Gene No.	114842	Strand	+

Start	14175	End	17002
Name	OJ000112_15.0426.C10.o5.gs	Method	GENSCAN
Start	14175	End	16431
GI	none	Score	.93
Exons	14175..14618, 15326..15542, 15888..16048, 16127..16192, 16339..16431		

Seq. No.	54770	Seq. ID	OJ000112_15.0426.C10
Gene No.	114842	Strand	+
Start	14175	End	17002
Name	OJ000112_15.0426.C10.o4.np	Method	AAT/NAP
Start	14184	End	17002
GI	5734585	Score	1042
Exons	14184..14618, 15326..15542, 15888..16048, 16127..16192, 16339..16538, 16612..17002		
GI Descrip.	(AJ245861) putative internal rotenone-insensitive NADH dehydrogenase [Solanum tuberosum]		

Seq. No.	54770	Seq. ID	OJ000112_15.0426.C10
Gene No.	114843	Strand	-
Start	1090	End	1492
Name	OJ000112_15.0426.C10.o1.gs	Method	GENSCAN
Start	1090	End	1492
GI	none	Score	.95
Exons	1090..1274, 1363..1492		

Seq. No.	54770	Seq. ID	OJ000112_15.0426.C10
Gene No.	114844	Strand	-
Start	7292	End	13634
Name	OJ000112_15.0426.C10.o4.gs	Method	GENSCAN
Start	7292	End	13599
GI	none	Score	.44
Exons	7292..8410, 8515..8704, 8853..8987, 9073..9170, 9272..9823, 9912..10016, 12184..13599		

Seq. No.	54770	Seq. ID	OJ000112_15.0426.C10
Gene No.	114844	Strand	-
Start	7292	End	13634
Name	OJ000112_15.0426.C10.o2.np	Method	AAT/NAP
Start	7304	End	9840
GI	5733874	Score	1429
Exons	7304..8407, 8515..8704, 8853..8987, 9073..9170, 9272..9438, 9550..9840		
GI Descrip.	(AC007932) F11A17.8 [Arabidopsis thaliana]		

Seq. No.	54770	Seq. ID	OJ000112_15.0426.C10
Gene No.	114844	Strand	-
Start	7292	End	13634
Name	OJ000112_15.0426.C10.o3.np	Method	AAT/NAP
Start	10937	End	13634
GI	4115931	Score	1859
Exons	10937..11152, 12184..13634		
GI Descrip.	(AF118223) contains similarity to Guillardia theta ABC transporter (GB:AF041468) [Arabidopsis thaliana]		

Seq. No.	54770	Seq. ID	OJ000112_15.0426.C10
Gene No.	114844	Strand	-

Start	7292	End	13634
Name	OJ000112_15.0426.C10.o3.gp	Method	AAT/GAP
Start	12723	End	13125
GI	uC-osflcyp044f01b1	Score	702
Exons	12723..13125		
GI Descrip.	'4115931/gb|AAD03441.1| 6.0e-45 (AF118223) contains similarity to Guillardia theta ABC transporter (GB:AF041468) [Arabidopsis thaliana]'		

Seq. No.	54770	Seq. ID	OJ000112_15.0426.C10
Gene No.	114845	Strand	-
Start	16337	End	16517
Name	OJ000112_15.0426.C10.o2.tm	Method	TBLASTX:Maize
Start	5435	End	6420
GI	none	Score	85
Exons	5435..5536, 5441..5536, 5500..5538, 5551..6093, 5556..6020, 5576..6043, 6014..6112, 6018..6137, 6019..6420, 6034..6420		

Seq. No.	54770	Seq. ID	OJ000112_15.0426.C10
Gene No.	114845	Strand	-
Start	16337	End	16517
Name	OJ000112_15.0426.C10.o1.ts	Method	TBLASTX:Soybean
Start	5645	End	6621
GI	none	Score	542
Exons	5645..6019, 5653..6093, 5654..6043, 6018..6137, 6019..6621, 6198..6620		

Seq. No.	54770	Seq. ID	OJ000112_15.0426.C10
Gene No.	114845	Strand	-
Start	16337	End	16517
Name	OJ000112_15.0426.C10.o1.tc	Method	TBLASTX:Cress
Start	5659	End	6630
GI	none	Score	567
Exons	5659..6084, 5660..6043, 6018..6128, 6019..6630, 6040..6531, 6198..6620		

Seq. No.	54770	Seq. ID	OJ000112_15.0426.C10
Gene No.	114845	Strand	-
Start	16337	End	16517
Name	OJ000112_15.0426.C10.o1.tw	Method	TBLASTX:Wheat
Start	5666	End	5965
GI	none	Score	330
Exons	5666..5965, 5668..5955		

Seq. No.	54770	Seq. ID	OJ000112_15.0426.C10
Gene No.	114845	Strand	-
Start	16337	End	16517
Name	OJ000112_15.0426.C10.o4.tw	Method	TBLASTX:Wheat
Start	6310	End	6603
GI	none	Score	202
Exons	6310..6501, 6312..6533, 6520..6603		

Seq. No.	54770	Seq. ID	OJ000112_15.0426.C10
Gene No.	114845	Strand	-
Start	16337	End	16517
Name	OJ000112_15.0426.C10.o6.tm	Method	TBLASTX:Maize
Start	6421	End	6627

GI	none	Score	270
Exons	6421..6627, 6422..6613, 6423..6626		

Seq. No.	54770	Seq. ID	OJ000112_15.0426.C10
Gene No.	114845	Strand	-
Start	16337	End	16517
Name	OJ000112_15.0426.C10.o3.ts	Method	TBLASTX:Soybean
Start	7310	End	8305
GI	none	Score	118
Exons	7310..7588, 7338..7586, 7700..7756, 7787..8077, 7791..8075, 8135..8305		

Seq. No.	54770	Seq. ID	OJ000112_15.0426.C10
Gene No.	114845	Strand	-
Start	16337	End	16517
Name	OJ000112_15.0426.C10.o3.tw	Method	TBLASTX:Wheat
Start	7310	End	7705
GI	none	Score	131
Exons	7310..7588, 7338..7586, 7619..7705		

Seq. No.	54770	Seq. ID	OJ000112_15.0426.C10
Gene No.	114845	Strand	-
Start	16337	End	16517
Name	OJ000112_15.0426.C10.o3.tc	Method	TBLASTX:Cress
Start	7355	End	8078
GI	none	Score	113
Exons	7355..7588, 7362..7586, 7658..7705, 7700..7771, 7790..7978, 7800..7982, 7961..8077, 8037..8078		

Seq. No.	54770	Seq. ID	OJ000112_15.0426.C10
Gene No.	114845	Strand	-
Start	16337	End	16517
Name	OJ000112_15.0426.C10.o3.tm	Method	TBLASTX:Maize
Start	7418	End	8389
GI	none	Score	147
Exons	7418..8275, 7424..7726, 7791..8057, 8145..8279, 8324..8389		

Seq. No.	54770	Seq. ID	OJ000112_15.0426.C10
Gene No.	114845	Strand	-
Start	16337	End	16517
Name	OJ000112_15.0426.C10.o7.ts	Method	TBLASTX:Soybean
Start	8336	End	9856
GI	none	Score	42
Exons	8336..8410, 8337..8408, 8482..8718, 8510..8692, 8861..8911, 8912..8941, 9075..9167, 9076..9150, 9269..9358, 9393..9440, 9548..9733, 9549..9821, 9794..9856		

Seq. No.	54770	Seq. ID	OJ000112_15.0426.C10
Gene No.	114845	Strand	-
Start	16337	End	16517
Name	OJ000112_15.0426.C10.o8.tm	Method	TBLASTX:Maize
Start	8482	End	8707
GI	none	Score	126
Exons	8482..8703, 8513..8707, 8513..8707		

Seq. No.	54770	Seq. ID	OJ000112_15.0426.C10
Gene No.	114845	Strand	-

Start	16337	End	16517
Name	OJ000112_15.0426.C10.o7.tm	Method	TBLASTX:Maize
Start	8885	End	9911
GI	none	Score	48
Exons	8885..8944, 8886..8984, 9072..9167, 9073..9180, 9269..9391, 9273..9362, 9548..9850, 9549..9911		

Seq. No.	54770	Seq. ID	OJ000112_15.0426.C10
Gene No.	114845	Strand	-
Start	16337	End	16517
Name	OJ000112_15.0426.C10.o6.tc	Method	TBLASTX:Cress
Start	9569	End	9821
GI	none	Score	161
Exons	9569..9733, 9570..9821		

Seq. No.	54770	Seq. ID	OJ000112_15.0426.C10
Gene No.	114845	Strand	-
Start	16337	End	16517
Name	OJ000112_15.0426.C10.o4.tm	Method	TBLASTX:Maize
Start	10824	End	12243
GI	none	Score	51
Exons	10824..10877, 10837..10878, 10887..11153, 10888..11154, 10904..11155, 10926..11156, 10934..11155, 12181..12243, 12182..12241		

Seq. No.	54770	Seq. ID	OJ000112_15.0426.C10
Gene No.	114845	Strand	-
Start	16337	End	16517
Name	OJ000112_15.0426.C10.o2.ts	Method	TBLASTX:Soybean
Start	10871	End	13078
GI	none	Score	72
Exons	10871..10942, 10924..11085, 10934..11155, 10935..11129, 12173..12622, 12181..13077, 12182..12622, 12541..12969, 12686..13078		

Seq. No.	54770	Seq. ID	OJ000112_15.0426.C10
Gene No.	114845	Strand	-
Start	16337	End	16517
Name	OJ000112_15.0426.C10.o2.tc	Method	TBLASTX:Cress
Start	10934	End	12653
GI	none	Score	203
Exons	10934..11155, 10935..11132, 12180..12515, 12181..12444, 12181..12630, 12194..12622, 12561..12653		

Seq. No.	54770	Seq. ID	OJ000112_15.0426.C10
Gene No.	114845	Strand	-
Start	16337	End	16517
Name	OJ000112_15.0426.C10.o1.tm	Method	TBLASTX:Maize
Start	12256	End	13477
GI	none	Score	232
Exons	12256..12417, 12257..12418, 12414..12890, 12418..13197, 12419..13198, 13132..13410, 13181..13435, 13388..13477, 13393..13467		

Seq. No.	54770	Seq. ID	OJ000112_15.0426.C10
Gene No.	114845	Strand	-
Start	16337	End	16517

Name	OJ000112_15.0426.C10.o4.ts	Method	TBLASTX:Soybean
Start	13078	End	13369
GI	none	Score	143
Exons	13078..13362, 13148..13369		

Seq. No.	54770	Seq. ID	OJ000112_15.0426.C10
Gene No.	114845	Strand	-
Start	16337	End	16517
Name	OJ000112_15.0426.C10.o5.tc	Method	TBLASTX:Cress
Start	13162	End	13377
GI	none	Score	116
Exons	13162..13377, 13163..13369		

Seq. No.	54770	Seq. ID	OJ000112_15.0426.C10
Gene No.	114845	Strand	-
Start	16337	End	16517
Name	OJ000112_15.0426.C10.o5.tm	Method	TBLASTX:Maize
Start	14270	End	14545
GI	none	Score	365
Exons	14270..14545, 14271..14543		

Seq. No.	54770	Seq. ID	OJ000112_15.0426.C10
Gene No.	114845	Strand	-
Start	16337	End	16517
Name	OJ000112_15.0426.C10.o6.ts	Method	TBLASTX:Soybean
Start	14324	End	14516
GI	none	Score	262
Exons	14324..14509, 14325..14516, 14427..14516		

Seq. No.	54770	Seq. ID	OJ000112_15.0426.C10
Gene No.	114845	Strand	-
Start	16337	End	16517
Name	OJ000112_15.0426.C10.o2.tw	Method	TBLASTX:Wheat
Start	14444	End	14623
GI	none	Score	278
Exons	14444..14623, 14445..14621		

Seq. No.	54770	Seq. ID	OJ000112_15.0426.C10
Gene No.	114845	Strand	-
Start	16337	End	16517
Name	OJ000112_15.0426.C10.o5.ts	Method	TBLASTX:Soybean
Start	15409	End	16473
GI	none	Score	193
Exons	15409..15546, 15410..15562, 15416..15562, 15841..15996, 15887..16060, 15902..16048, 15903..16049, 16015..16056, 16103..16192, 16112..16183, 16119..16184, 16126..16203, 16330..16473, 16334..16453, 16338..16457		

Seq. No.	54770	Seq. ID	OJ000112_15.0426.C10
Gene No.	114845	Strand	-
Start	16337	End	16517
Name	OJ000112_15.0426.C10.o4.tc	Method	TBLASTX:Cress
Start	15878	End	16517
GI	none	Score	261
Exons	15878..16060, 15886..16056, 16112..16192, 16126..16203, 16330..16503, 16338..16517		

Seq. No.	54770	Seq. ID	OJ000112_15.0426.C10
Gene No.	114845	Strand	-
Start	16337	End	16517
Name	OJ000112_15.0426.C10.o4.gp	Method	AAT/GAP
Start	16337	End	16508
GI	2352_1.R1084	Score	292
Exons	16337..16508		
GI Descrip.	'3420052 2.0e-81 (AC004680) putative ubiqinone reductase [Arabidopsis thaliana]'		

Seq. No.	54771	Seq. ID	OJ000112_15.0426.C11
Gene No.	114846	Strand	+
Start	252	End	451
Name	OJ000112_15.0426.C11.o1.gs	Method	GENSCAN
Start	252	End	451
GI	none	Score	.84
Exons	252..451		

Seq. No.	54771	Seq. ID	OJ000112_15.0426.C11
Gene No.	114847	Strand	-
Start	609	End	815
Name	OJ000112_15.0426.C11.o2.gs	Method	GENSCAN
Start	609	End	815
GI	none	Score	.54
Exons	609..815		

Seq. No.	54772	Seq. ID	OJ000112_15.0426.C13
Gene No.	114848	Strand	-
Start	317	End	2873
Name	OJ000112_15.0426.C13.o1.gs	Method	GENSCAN
Start	317	End	2873
GI	none	Score	.42
Exons	317..463, 1001..1176, 2364..2515, 2752..2873		

Seq. No.	54773	Seq. ID	OJ000112_15.0426.C14
Gene No.	114849	Strand	+
Start	9660	End	9797
Name	OJ000112_15.0426.C14.o3.np	Method	AAT/NAP
Start	9660	End	9797
GI	6907088	Score	204
Exons	9660..9797		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	54773	Seq. ID	OJ000112_15.0426.C14
Gene No.	114850	Strand	-
Start	2699	End	7415
Name	OJ000112_15.0426.C14.o1.np	Method	AAT/NAP
Start	2670	End	7244
GI	4680179	Score	4592
Exons	2670..6086, 6189..7244		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	54773	Seq. ID	OJ000112_15.0426.C14
Gene No.	114850	Strand	-
Start	2699	End	7415
Name	OJ000112_15.0426.C14.o2.gs	Method	GENSCAN
Start	2699	End	5536

GI	none	Score	.97
Exons	2699..5536		

Seq. No.	54773	Seq. ID	OJ000112_15.0426.C14
Gene No.	114850	Strand	-
Start	2699	End	7415
Name	OJ000112_15.0426.C14.o3.gs	Method	GENSCAN
Start	6048	End	7415
GI	none	Score	.97
Exons	6048..7415		

Seq. No.	54773	Seq. ID	OJ000112_15.0426.C14
Gene No.	114851	Strand	-
Start	7732	End	8655
Name	OJ000112_15.0426.C14.o4.gs	Method	GENSCAN
Start	7732	End	8655
GI	none	Score	.98
Exons	7732..8655		

Seq. No.	54773	Seq. ID	OJ000112_15.0426.C14
Gene No.	114851	Strand	-
Start	7732	End	8655
Name	OJ000112_15.0426.C14.o2.np	Method	AAT/NAP
Start	7735	End	8516
GI	6002794	Score	1290
Exons	7735..8516		
GI Descrip.	(AF149813) unknown [Oryza sativa]		

Seq. No.	54773	Seq. ID	OJ000112_15.0426.C14
Gene No.	114852	Strand	-
Start	8813	End	9728
Name	OJ000112_15.0426.C14.o5.tw	Method	TBLASTX:Wheat
Start	2714	End	3046
GI	none	Score	155
Exons	2714..3046, 2735..3040		

Seq. No.	54773	Seq. ID	OJ000112_15.0426.C14
Gene No.	114852	Strand	-
Start	8813	End	9728
Name	OJ000112_15.0426.C14.o8.tm	Method	TBLASTX:Maize
Start	2729	End	2890
GI	none	Score	100
Exons	2729..2887, 2732..2890		

Seq. No.	54773	Seq. ID	OJ000112_15.0426.C14
Gene No.	114852	Strand	-
Start	8813	End	9728
Name	OJ000112_15.0426.C14.o1.tm	Method	TBLASTX:Maize
Start	2897	End	3490
GI	none	Score	64
Exons	2897..2992, 2897..3334, 2907..3116, 3065..3214, 3192..3335, 3253..3336, 3332..3490, 3339..3485, 3341..3487		

Seq. No.	54773	Seq. ID	OJ000112_15.0426.C14
Gene No.	114852	Strand	-
Start	8813	End	9728
Name	OJ000112_15.0426.C14.o1.tw	Method	TBLASTX:Wheat

Start	3047	End	3673
GI	none	Score	251
Exons	3047..3673, 3171..3578		

Seq. No.	54773	Seq. ID	OJ000112_15.0426.C14
Gene No.	114852	Strand	-
Start	8813	End	9728
Name	OJ000112_15.0426.C14.o4.tm	Method	TBLASTX:Maize
Start	3542	End	3834
GI	none	Score	97
Exons	3542..3832, 3545..3760, 3642..3821, 3682..3834		

Seq. No.	54773	Seq. ID	OJ000112_15.0426.C14
Gene No.	114852	Strand	-
Start	8813	End	9728
Name	OJ000112_15.0426.C14.o2.ts	Method	TBLASTX:Soybean
Start	3632	End	3887
GI	none	Score	82
Exons	3632..3760, 3632..3880, 3642..3887		

Seq. No.	54773	Seq. ID	OJ000112_15.0426.C14
Gene No.	114852	Strand	-
Start	8813	End	9728
Name	OJ000112_15.0426.C14.o1.tc	Method	TBLASTX:Cress
Start	3656	End	3973
GI	none	Score	102
Exons	3656..3799, 3672..3797, 3800..3973, 3854..3952		

Seq. No.	54773	Seq. ID	OJ000112_15.0426.C14
Gene No.	114852	Strand	-
Start	8813	End	9728
Name	OJ000112_15.0426.C14.o3.tw	Method	TBLASTX:Wheat
Start	3680	End	4207
GI	none	Score	280
Exons	3680..4207, 3684..4130		

Seq. No.	54773	Seq. ID	OJ000112_15.0426.C14
Gene No.	114852	Strand	-
Start	8813	End	9728
Name	OJ000112_15.0426.C14.o2.tm	Method	TBLASTX:Maize
Start	4242	End	4600
GI	none	Score	75
Exons	4242..4523, 4247..4600, 4252..4524, 4299..4598		

Seq. No.	54773	Seq. ID	OJ000112_15.0426.C14
Gene No.	114852	Strand	-
Start	8813	End	9728
Name	OJ000112_15.0426.C14.o2.tw	Method	TBLASTX:Wheat
Start	4247	End	4673
GI	none	Score	95
Exons	4247..4672, 4249..4554, 4262..4615, 4284..4673		

Seq. No.	54773	Seq. ID	OJ000112_15.0426.C14
Gene No.	114852	Strand	-
Start	8813	End	9728
Name	OJ000112_15.0426.C14.o3.ts	Method	TBLASTX:Soybean
Start	4421	End	4666

GI	none	Score	212
Exons	4421..4666		

Seq. No.	54773	Seq. ID	OJ000112_15.0426.C14
Gene No.	114852	Strand	-
Start	8813	End	9728
Name	OJ000112_15.0426.C14.o3.tm	Method	TBLASTX:Maize
Start	4637	End	5137
GI	none	Score	70
Exons	4637..4972, 4659..4928, 4958..5137		

Seq. No.	54773	Seq. ID	OJ000112_15.0426.C14
Gene No.	114852	Strand	-
Start	8813	End	9728
Name	OJ000112_15.0426.C14.o6.tw	Method	TBLASTX:Wheat
Start	4679	End	4975
GI	none	Score	154
Exons	4679..4975, 4716..4931, 4808..4975		

Seq. No.	54773	Seq. ID	OJ000112_15.0426.C14
Gene No.	114852	Strand	-
Start	8813	End	9728
Name	OJ000112_15.0426.C14.o1.ts	Method	TBLASTX:Soybean
Start	4688	End	5083
GI	none	Score	133
Exons	4688..5047, 4716..4931, 4829..5047, 4971..5066, 5051..5083, 5051..5083		

Seq. No.	54773	Seq. ID	OJ000112_15.0426.C14
Gene No.	114852	Strand	-
Start	8813	End	9728
Name	OJ000112_15.0426.C14.o4.tw	Method	TBLASTX:Wheat
Start	5024	End	5507
GI	none	Score	159
Exons	5024..5506, 5033..5479, 5052..5507		

Seq. No.	54773	Seq. ID	OJ000112_15.0426.C14
Gene No.	114852	Strand	-
Start	8813	End	9728
Name	OJ000112_15.0426.C14.o5.tm	Method	TBLASTX:Maize
Start	5207	End	5494
GI	none	Score	180
Exons	5207..5494, 5208..5393		

Seq. No.	54773	Seq. ID	OJ000112_15.0426.C14
Gene No.	114852	Strand	-
Start	8813	End	9728
Name	OJ000112_15.0426.C14.o7.tw	Method	TBLASTX:Wheat
Start	5653	End	6052
GI	none	Score	84
Exons	5653..5817, 5702..5821, 5830..6051, 5897..6052		

Seq. No.	54773	Seq. ID	OJ000112_15.0426.C14
Gene No.	114852	Strand	-
Start	8813	End	9728
Name	OJ000112_15.0426.C14.o7.tm	Method	TBLASTX:Maize
Start	5734	End	6058

GI	none	Score	60
Exons	5734..6051, 5734..6057, 5945..6058		

Seq. No.	54773	Seq. ID	OJ000112_15.0426.C14
Gene No.	114852	Strand	-
Start	8813	End	9728
Name	OJ000112_15.0426.C14.o6.tm	Method	TBLASTX:Maize
Start	6366	End	6752
GI	none	Score	239
Exons	6366..6752		

Seq. No.	54773	Seq. ID	OJ000112_15.0426.C14
Gene No.	114852	Strand	-
Start	8813	End	9728
Name	OJ000112_15.0426.C14.o8.tw	Method	TBLASTX:Wheat
Start	6648	End	7013
GI	none	Score	60
Exons	6648..7013, 6907..7008		

Seq. No.	54773	Seq. ID	OJ000112_15.0426.C14
Gene No.	114852	Strand	-
Start	8813	End	9728
Name	OJ000112_15.0426.C14.o1.gp	Method	AAT/GAP
Start	8813	End	9308
GI	38782_1.R1084	Score	777
Exons	8813..9308		
GI Descrip.	'6069643/dbj|AP000616.1|AP000616 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	54773	Seq. ID	OJ000112_15.0426.C14
Gene No.	114852	Strand	-
Start	8813	End	9728
Name	OJ000112_15.0426.C14.o5.gs	Method	GENSCAN
Start	9099	End	9728
GI	none	Score	.73
Exons	9099..9172, 9674..9728		

Seq. No.	54774	Seq. ID	OJ000112_15.0426.C15
Gene No.	114853	Strand	+
Start	109	End	1348
Name	OJ000112_15.0426.C15.o1.gs	Method	GENSCAN
Start	109	End	1348
GI	none	Score	.61
Exons	109..241, 345..463, 712..868, 1224..1348		

Seq. No.	54774	Seq. ID	OJ000112_15.0426.C15
Gene No.	114854	Strand	-
Start	1917	End	2245
Name	OJ000112_15.0426.C15.o1.tm	Method	TBLASTX:Maize
Start	1813	End	2144
GI	none	Score	42
Exons	1813..1860, 1814..1858, 1898..2116, 1899..2117, 1900..2118, 1905..2144		

Seq. No.	54774	Seq. ID	OJ000112_15.0426.C15
Gene No.	114854	Strand	-
Start	1917	End	2245

Name	OJ000112_15.0426.C15.o1.np	Method	AAT/NAP
Start	1917	End	2245
GI	4588002	Score	162
Exons	1917..2245		
GI Descrip.	(AF085279) hypothetical ankyrin-like protein [Arabidopsis thaliana]		

Seq. No.	54774	Seq. ID	OJ000112_15.0426.C15
Gene No.	114854	Strand	-
Start	1917	End	2245
Name	OJ000112_15.0426.C15.o1.gp	Method	AAT/GAP
Start	1985	End	2115
GI	LIB3475-011-P1-K1-E1	Score	268
Exons	1985..2115		
GI Descrip.	'4586045/gb|AAD25663.1|AC007020_5 1.0e-45 (AC007020) putative ankyrin protein [Arabidopsis thaliana]'		

Seq. No.	54775	Seq. ID	OJ000112_15.0426.C16
Gene No.	114855	Strand	-
Start	1	End	1334
Name	OJ000112_15.0426.C16.o1.gp	Method	AAT/GAP
Start	1	End	708
GI	LIB3475-011-P1-K1-E1	Score	334
Exons	1..138, 666..708		
GI Descrip.	'4586045/gb|AAD25663.1|AC007020_5 1.0e-45 (AC007020) putative ankyrin protein [Arabidopsis thaliana]'		

Seq. No.	54775	Seq. ID	OJ000112_15.0426.C16
Gene No.	114855	Strand	-
Start	1	End	1334
Name	OJ000112_15.0426.C16.o1.np	Method	AAT/NAP
Start	1	End	1332
GI	4588002	Score	441
Exons	1..138, 666..911, 1157..1332		
GI Descrip.	(AF085279) hypothetical ankyrin-like protein [Arabidopsis thaliana]		

Seq. No.	54775	Seq. ID	OJ000112_15.0426.C16
Gene No.	114855	Strand	-
Start	1	End	1334
Name	OJ000112_15.0426.C16.o1.tc	Method	TBLASTX:Cress
Start	3	End	730
GI	none	Score	100
Exons	3..137, 4..108, 15..110, 665..730		

Seq. No.	54775	Seq. ID	OJ000112_15.0426.C16
Gene No.	114855	Strand	-
Start	1	End	1334
Name	OJ000112_15.0426.C16.o2.tm	Method	TBLASTX:Maize
Start	3	End	754
GI	none	Score	160
Exons	3..137, 4..138, 10..144, 11..145, 651..746, 663..746, 664..747, 664..747, 665..754, 665..751		

Seq. No.	54775	Seq. ID	OJ000112_15.0426.C16
Gene No.	114855	Strand	-
Start	1	End	1334

Name	OJ000112_15.0426.C16.o1.gs	Method	GENSCAN
Start	22	End	929
GI	none	Score	.8
Exons	22..138, 666..929		

Seq. No.	54775	Seq. ID	OJ000112_15.0426.C16
Gene No.	114855	Strand	-
Start	1	End	1334
Name	OJ000112_15.0426.C16.o1.tm	Method	TBLASTX:Maize
Start	755	End	1334
GI	none	Score	83
Exons	755..793, 773..928, 776..937, 844..933, 1086..1334, 1142..1333		

Seq. No.	54776	Seq. ID	OJ000112_15.0426.C17
Gene No.	114856	Strand	-
Start	1	End	1388
Name	OJ000112_15.0426.C17.o1.np	Method	AAT/NAP
Start	1	End	1388
GI	4588002	Score	597
Exons	1..168, 439..588, 1189..1388		
GI Descrip.	(AF085279) hypothetical ankyrin-like protein [Arabidopsis thaliana]		

Seq. No.	54776	Seq. ID	OJ000112_15.0426.C17
Gene No.	114856	Strand	-
Start	1	End	1388
Name	OJ000112_15.0426.C17.o1.tc	Method	TBLASTX:Cress
Start	2	End	1356
GI	none	Score	91
Exons	2..88, 3..83, 46..162, 50..163, 433..591, 455..598, 470..622, 1177..1257, 1270..1356		

Seq. No.	54776	Seq. ID	OJ000112_15.0426.C17
Gene No.	114856	Strand	-
Start	1	End	1388
Name	OJ000112_15.0426.C17.o1.ts	Method	TBLASTX:Soybean
Start	2	End	1248
GI	none	Score	116
Exons	2..88, 3..86, 46..165, 75..149, 83..181, 439..591, 439..591, 467..598, 470..598, 1186..1248		

Seq. No.	54776	Seq. ID	OJ000112_15.0426.C17
Gene No.	114856	Strand	-
Start	1	End	1388
Name	OJ000112_15.0426.C17.o1.tm	Method	TBLASTX:Maize
Start	2	End	675
GI	none	Score	118
Exons	2..88, 3..86, 46..165, 47..169, 83..169, 84..173, 436..675, 440..589		

Seq. No.	54776	Seq. ID	OJ000112_15.0426.C17
Gene No.	114856	Strand	-
Start	1	End	1388
Name	OJ000112_15.0426.C17.o1.gs	Method	GENSCAN
Start	439	End	1296
GI	none	Score	.8
Exons	439..588, 981..1073, 1189..1296		

Seq. No.	54776	Seq. ID	OJ000112_15.0426.C17
Gene No.	114856	Strand	-
Start	1	End	1388
Name	OJ000112_15.0426.C17.o2.tm	Method	TBLASTX:Maize
Start	1186	End	1362
GI	none	Score	68
Exons	1186..1257, 1187..1258, 1261..1362, 1326..1352		

Seq. No.	54777	Seq. ID	OJ000112_15.0426.C18
Gene No.	114857	Strand	-
Start	1059	End	2674
Name	OJ000112_15.0426.C18.o1.np	Method	AAT/NAP
Start	1059	End	2674
GI	7486131	Score	308
Exons	1059..1214, 1301..1393, 1858..1998, 2234..2299, 2417..2674		
GI Descrip.	hypothetical protein F25G13.50 - Arabidopsis thaliana gi|5123937|emb|CAB45495.1| (AL079349) putative protein [Arabidopsis thaliana] gi|7267998|emb|CAB78338.1| (AL161535) putative protein [Arabidopsis thaliana]		

Seq. No.	54777	Seq. ID	OJ000112_15.0426.C18
Gene No.	114858	Strand	-
Start	3498	End	5509
Name	OJ000112_15.0426.C18.o2.gs	Method	GENSCAN
Start	3498	End	5494
GI	none	Score	.61
Exons	3498..3593, 3833..3860, 3948..4134, 4212..4374, 4768..4953, 5007..5257, 5365..5494		

Seq. No.	54777	Seq. ID	OJ000112_15.0426.C18
Gene No.	114858	Strand	-
Start	3498	End	5509
Name	OJ000112_15.0426.C18.o1.gp	Method	AAT/GAP
Start	3676	End	4363
GI	76740_1.R1084	Score	947
Exons	3676..3860, 3948..4134, 4212..4363		
GI Descrip.	'3894172 8.0e-29 (AC005312) putative cinnamoyl-CoA reductase [Arabidopsis thaliana]'		

Seq. No.	54777	Seq. ID	OJ000112_15.0426.C18
Gene No.	114858	Strand	-
Start	3498	End	5509
Name	OJ000112_15.0426.C18.o2.np	Method	AAT/NAP
Start	3722	End	5476
GI	3894172	Score	584
Exons	3722..3860, 3948..4112, 4190..4374, 4768..4953, 5085..5255, 5372..5476		
GI Descrip.	(AC005312) putative cinnamoyl-CoA reductase [Arabidopsis thaliana]		

Seq. No.	54777	Seq. ID	OJ000112_15.0426.C18
Gene No.	114858	Strand	-
Start	3498	End	5509
Name	OJ000112_15.0426.C18.o2.gp	Method	AAT/GAP
Start	4903	End	5509
GI	uC-osf1M202082e08b1	Score	648

Exons	4903..4953, 5085..5257, 5365..5509		
GI Descrip.	'5042437/gb|AC007789.1|AC007789 6.0e-12 Oryza sativa BAC T49B20 genomic sequence, complete sequence'		

Seq. No.	54777	Seq. ID	OJ000112_15.0426.C18
Gene No.	114859	Strand	-
Start	6387	End	11804
Name	OJ000112_15.0426.C18.o3.gs	Method	GENSCAN
Start	6387	End	8877
GI	none	Score	.52
Exons	6387..6554, 7828..7976, 8396..8568, 8729..8877		

Seq. No.	54777	Seq. ID	OJ000112_15.0426.C18
Gene No.	114859	Strand	-
Start	6387	End	11804
Name	OJ000112_15.0426.C18.o3.np	Method	AAT/NAP
Start	8270	End	11804
GI	7340909	Score	192
Exons	8270..8424, 8761..8819, 8909..9200, 11508..11804		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	54777	Seq. ID	OJ000112_15.0426.C18
Gene No.	114860	Strand	-
Start	14815	End	15516
Name	OJ000112_15.0426.C18.o4.ts	Method	TBLASTX:Soybean
Start	1161	End	2633
GI	none	Score	81
Exons	1161..1208, 1284..1397, 1307..1381, 1855..1995, 1859..1993, 2240..2302, 2241..2312, 2417..2617, 2418..2633		

Seq. No.	54777	Seq. ID	OJ000112_15.0426.C18
Gene No.	114860	Strand	-
Start	14815	End	15516
Name	OJ000112_15.0426.C18.o3.tc	Method	TBLASTX:Cress
Start	2222	End	2590
GI	none	Score	72
Exons	2222..2311, 2238..2300, 2417..2590, 2418..2585		

Seq. No.	54777	Seq. ID	OJ000112_15.0426.C18
Gene No.	114860	Strand	-
Start	14815	End	15516
Name	OJ000112_15.0426.C18.o3.tm	Method	TBLASTX:Maize
Start	2237	End	2627
GI	none	Score	58
Exons	2237..2302, 2238..2300, 2417..2623, 2418..2627		

Seq. No.	54777	Seq. ID	OJ000112_15.0426.C18
Gene No.	114860	Strand	-
Start	14815	End	15516
Name	OJ000112_15.0426.C18.o1.tm	Method	TBLASTX:Maize
Start	3685	End	4126
GI	none	Score	97
Exons	3685..3855, 3690..3854, 3707..3862, 3707..3859, 3708..3863, 3917..4027, 4036..4068, 4070..4126		

Seq. No.	54777	Seq. ID	OJ000112_15.0426.C18
Gene No.	114860	Strand	-

Start	14815	End	15516
Name	OJ000112_15.0426.C18.o4.tc	Method	TBLASTX:Cress
Start	3699	End	4117
GI	none	Score	80
Exons	3699..3818, 3722..3862, 3729..3818, 3953..4117		

Seq. No.	54777	Seq. ID	OJ000112_15.0426.C18
Gene No.	114860	Strand	-
Start	14815	End	15516
Name	OJ000112_15.0426.C18.o1.ts	Method	TBLASTX:Soybean
Start	3747	End	4896
GI	none	Score	89
Exons	3747..3863, 3749..3862, 3953..4117, 4023..4136, 4210..4371, 4774..4896		

Seq. No.	54777	Seq. ID	OJ000112_15.0426.C18
Gene No.	114860	Strand	-
Start	14815	End	15516
Name	OJ000112_15.0426.C18.o2.tw	Method	TBLASTX:Wheat
Start	3953	End	4372
GI	none	Score	70
Exons	3953..4114, 4210..4368, 4225..4350, 4265..4372		

Seq. No.	54777	Seq. ID	OJ000112_15.0426.C18
Gene No.	114860	Strand	-
Start	14815	End	15516
Name	OJ000112_15.0426.C18.o4.tm	Method	TBLASTX:Maize
Start	4204	End	5527
GI	none	Score	100
Exons	4204..4341, 4774..4887, 5079..5255, 5094..5255, 5119..5256, 5369..5527, 5370..5519		

Seq. No.	54777	Seq. ID	OJ000112_15.0426.C18
Gene No.	114860	Strand	-
Start	14815	End	15516
Name	OJ000112_15.0426.C18.o2.tc	Method	TBLASTX:Cress
Start	4804	End	5521
GI	none	Score	76
Exons	4804..4974, 5085..5255, 5369..5521, 5373..5516		

Seq. No.	54777	Seq. ID	OJ000112_15.0426.C18
Gene No.	114860	Strand	-
Start	14815	End	15516
Name	OJ000112_15.0426.C18.o1.tw	Method	TBLASTX:Wheat
Start	4924	End	5489
GI	none	Score	229
Exons	4924..4956, 5085..5261, 5119..5256, 5363..5488, 5367..5489		

Seq. No.	54777	Seq. ID	OJ000112_15.0426.C18
Gene No.	114860	Strand	-
Start	14815	End	15516
Name	OJ000112_15.0426.C18.o3.ts	Method	TBLASTX:Soybean
Start	5085	End	5477
GI	none	Score	129
Exons	5085..5261, 5119..5256, 5366..5464, 5367..5477		

Seq. No.	54777	Seq. ID	OJ000112_15.0426.C18

Gene No.	114860	Strand	-
Start	14815	End	15516
Name	OJ000112_15.0426.C18.o4.gs	Method	GENSCAN
Start	14815	End	15475
GI	none	Score	.51
Exons	14815..15475		

Seq. No.	54777	Seq. ID	OJ000112_15.0426.C18
Gene No.	114860	Strand	-
Start	14815	End	15516
Name	OJ000112_15.0426.C18.o4.np	Method	AAT/NAP
Start	14830	End	15456
GI	7487162	Score	522
Exons	14830..15456		
GI Descrip.	hypothetical protein T19C21.20 - Arabidopsis thaliana gi|3395441|gb|AAC28773.1| (AC004683) unknown protein [Arabidopsis thaliana]		

Seq. No.	54777	Seq. ID	OJ000112_15.0426.C18
Gene No.	114860	Strand	-
Start	14815	End	15516
Name	OJ000112_15.0426.C18.o2.tm	Method	TBLASTX:Maize
Start	14845	End	15453
GI	none	Score	56
Exons	14845..14952, 14846..14953, 15007..15129, 15008..15058, 15193..15339, 15194..15301, 15382..15453		

Seq. No.	54777	Seq. ID	OJ000112_15.0426.C18
Gene No.	114860	Strand	-
Start	14815	End	15516
Name	OJ000112_15.0426.C18.o1.tc	Method	TBLASTX:Cress
Start	14863	End	15352
GI	none	Score	95
Exons	14863..14952, 14864..14953, 15007..15129, 15025..15153, 15187..15351, 15200..15352		

Seq. No.	54777	Seq. ID	OJ000112_15.0426.C18
Gene No.	114860	Strand	-
Start	14815	End	15516
Name	OJ000112_15.0426.C18.o2.ts	Method	TBLASTX:Soybean
Start	14866	End	15516
GI	none	Score	82
Exons	14866..14952, 14867..14953, 15007..15129, 15008..15127, 15025..15159, 15187..15339, 15194..15340, 15448..15516		

Seq. No.	54778	Seq. ID	OJ000112_15.0426.C19
Gene No.	114861	Strand	+
Start	2102	End	2251
Name	OJ000112_15.0426.C19.o1.np	Method	AAT/NAP
Start	2102	End	2251
GI	6721105	Score	97
Exons	2102..2251		
GI Descrip.	(AC007396) T4O12.13 [Arabidopsis thaliana]		

Seq. No.	54779	Seq. ID	OJ000112_15.0426.C20
Gene No.	114862	Strand	+
Start	1	End	1417

Name	OJ000112_15.0426.C20.o1.np	Method	AAT/NAP
Start	1	End	1334
GI	6573287	Score	626
Exons	1..467, 587..842, 1140..1334		
GI Descrip.	(AB008020) similar to anther specific prolin-rich protein [Arabidopsis thaliana]		

Seq. No.	54779	Seq. ID	OJ000112_15.0426.C20
Gene No.	114862	Strand	+
Start	1	End	1417
Name	OJ000112_15.0426.C20.o1.gs	Method	GENSCAN
Start	45	End	1417
GI	none	Score	.77
Exons	45..467, 659..842, 1398..1417		

Seq. No.	54779	Seq. ID	OJ000112_15.0426.C20
Gene No.	114863	Strand	-
Start	652	End	1079
Name	OJ000112_15.0426.C20.o1.gp	Method	AAT/GAP
Start	652	End	1079
GI	LIB3432-040-P1-K1-H9	Score	787
Exons	652..1079		
GI Descrip.	'619085/emb|Z47172|CSPAG13 3.0e-11 Calothrix D253 genomic DNA (clone AG13)'		

Seq. No.	54779	Seq. ID	OJ000112_15.0426.C20
Gene No.	114864	Strand	-
Start	2223	End	2607
Name	OJ000112_15.0426.C20.o1.tm	Method	TBLASTX:Maize
Start	13	End	408
GI	none	Score	91
Exons	13..72, 15..71, 42..407, 44..406, 55..408		

Seq. No.	54779	Seq. ID	OJ000112_15.0426.C20
Gene No.	114864	Strand	-
Start	2223	End	2607
Name	OJ000112_15.0426.C20.o1.tc	Method	TBLASTX:Cress
Start	62	End	407
GI	none	Score	240
Exons	62..226, 63..407		

Seq. No.	54779	Seq. ID	OJ000112_15.0426.C20
Gene No.	114864	Strand	-
Start	2223	End	2607
Name	OJ000112_15.0426.C20.o1.ts	Method	TBLASTX:Soybean
Start	65	End	395
GI	none	Score	264
Exons	65..229, 66..395		

Seq. No.	54779	Seq. ID	OJ000112_15.0426.C20
Gene No.	114864	Strand	-
Start	2223	End	2607
Name	OJ000112_15.0426.C20.o2.ts	Method	TBLASTX:Soybean
Start	581	End	1342
GI	none	Score	191
Exons	581..853, 586..747, 1138..1323, 1139..1342		

Seq. No.	54779	Seq. ID	OJ000112_15.0426.C20
Gene No.	114864	Strand	-
Start	2223	End	2607
Name	OJ000112_15.0426.C20.o2.tm	Method	TBLASTX:Maize
Start	656	End	1332
GI	none	Score	264
Exons	656..844, 658..843, 1132..1332, 1139..1327		

Seq. No.	54779	Seq. ID	OJ000112_15.0426.C20
Gene No.	114864	Strand	-
Start	2223	End	2607
Name	OJ000112_15.0426.C20.o2.gs	Method	GENSCAN
Start	2223	End	2513
GI	none	Score	.53
Exons	2223..2513		

Seq. No.	54779	Seq. ID	OJ000112_15.0426.C20
Gene No.	114864	Strand	-
Start	2223	End	2607
Name	OJ000112_15.0426.C20.o3.tm	Method	TBLASTX:Maize
Start	2292	End	2607
GI	none	Score	77
Exons	2292..2462, 2293..2469, 2500..2607, 2502..2606		

Seq. No.	54780	Seq. ID	OJ000112_15.0426.C21
Gene No.	114865	Strand	-
Start	1	End	1223
Name	OJ000112_15.0426.C21.o1.np	Method	AAT/NAP
Start	1	End	1223
GI	100226	Score	478
Exons	1..1006, 1205..1223		
GI Descrip.	hypothetical protein - tomato gi|19275|emb|CAA78112| (Z12127) protein of unknown function [Lycopersicon esculentum] gi|445619|prf||1909366A Leu zipper protein [Lycopersicon esculentum]		

Seq. No.	54780	Seq. ID	OJ000112_15.0426.C21
Gene No.	114865	Strand	-
Start	1	End	1223
Name	OJ000112_15.0426.C21.o1.tm	Method	TBLASTX:Maize
Start	24	End	410
GI	none	Score	47
Exons	24..71, 25..69, 74..208, 75..212, 185..325, 213..326, 338..409, 339..410		

Seq. No.	54780	Seq. ID	OJ000112_15.0426.C21
Gene No.	114865	Strand	-
Start	1	End	1223
Name	OJ000112_15.0426.C21.o1.gs	Method	GENSCAN
Start	112	End	1021
GI	none	Score	.45
Exons	112..1021		

Seq. No.	54780	Seq. ID	OJ000112_15.0426.C21
Gene No.	114865	Strand	-
Start	1	End	1223
Name	OJ000112_15.0426.C21.o1.ts	Method	TBLASTX:Soybean

Start	227	End	601
GI	none	Score	151
Exons	227..319, 347..601		

Seq. No.	54781	Seq. ID	OJ000112_15.0426.C22
Gene No.	114866	Strand	+
Start	790	End	861
Name	OJ000112_15.0426.C22.o1.gs	Method	GENSCAN
Start	790	End	861
GI	none	Score	.81
Exons	790..861		

Seq. No.	54781	Seq. ID	OJ000112_15.0426.C22
Gene No.	114867	Strand	-
Start	534	End	2321
Name	OJ000112_15.0426.C22.o1.gp	Method	AAT/GAP
Start	534	End	851
GI	2798238	Score	542
Exons	534..851		

Seq. No.	54781	Seq. ID	OJ000112_15.0426.C22
Gene No.	114867	Strand	-
Start	534	End	2321
Name	OJ000112_15.0426.C22.o1.np	Method	AAT/NAP
Start	751	End	2321
GI	100226	Score	1144
Exons	751..2321		
GI Descrip.	hypothetical protein - tomato gi|19275|emb|CAA78112| (Z12127) protein of unknown function [Lycopersicon esculentum] gi|445619|prf||1909366A Leu zipper protein [Lycopersicon esculentum]		

Seq. No.	54781	Seq. ID	OJ000112_15.0426.C22
Gene No.	114867	Strand	-
Start	534	End	2321
Name	OJ000112_15.0426.C22.o1.tm	Method	TBLASTX:Maize
Start	787	End	1807
GI	none	Score	88
Exons	787..906, 788..880, 906..1031, 913..1083, 1022..1144, 1026..1160, 1030..1146, 1146..1322, 1146..1310, 1147..1803, 1147..1806, 1178..1807		

Seq. No.	54781	Seq. ID	OJ000112_15.0426.C22
Gene No.	114867	Strand	-
Start	534	End	2321
Name	OJ000112_15.0426.C22.o1.tw	Method	TBLASTX:Wheat
Start	906	End	1242
GI	none	Score	83
Exons	906..1013, 906..1031, 913..1083, 1022..1144, 1029..1142, 1147..1242, 1167..1217, 1178..1240		

Seq. No.	54781	Seq. ID	OJ000112_15.0426.C22
Gene No.	114867	Strand	-
Start	534	End	2321
Name	OJ000112_15.0426.C22.o1.tc	Method	TBLASTX:Cress
Start	918	End	1486
GI	none	Score	75

Exons	918..1025, 1049..1144, 1171..1317, 1379..1486, 1390..1485		
Seq. No.	54781	Seq. ID	OJ000112_15.0426.C22
Gene No.	114867	Strand	-
Start	534	End	2321
Name	OJ000112_15.0426.C22.o2.gs	Method	GENSCAN
Start	1138	End	2238
GI	none	Score	.86
Exons	1138..2238		
Seq. No.	54781	Seq. ID	OJ000112_15.0426.C22
Gene No.	114867	Strand	-
Start	534	End	2321
Name	OJ000112_15.0426.C22.o1.ts	Method	TBLASTX:Soybean
Start	1204	End	1755
GI	none	Score	53
Exons	1204..1317, 1375..1566, 1421..1549, 1585..1755, 1640..1723		
Seq. No.	54781	Seq. ID	OJ000112_15.0426.C22
Gene No.	114867	Strand	-
Start	534	End	2321
Name	OJ000112_15.0426.C22.o2.tm	Method	TBLASTX:Maize
Start	1807	End	1973
GI	none	Score	133
Exons	1807..1950, 1808..1951, 1809..1973, 1810..1965		
Seq. No.	54781	Seq. ID	OJ000112_15.0426.C22
Gene No.	114867	Strand	-
Start	534	End	2321
Name	OJ000112_15.0426.C22.o2.gp	Method	AAT/GAP
Start	1958	End	2321
GI	3760008	Score	585
Exons	1958..2321		
GI Descrip.	619085/emb|Z47172|CSPAG13 3.0e-11 Calothrix D253 genomic DNA (clone AG13)		
Seq. No.	54781	Seq. ID	OJ000112_15.0426.C22
Gene No.	114867	Strand	-
Start	534	End	2321
Name	OJ000112_15.0426.C22.o4.tm	Method	TBLASTX:Maize
Start	1975	End	2103
GI	none	Score	122
Exons	1975..2103, 1976..2086, 1981..2100		
Seq. No.	54781	Seq. ID	OJ000112_15.0426.C22
Gene No.	114867	Strand	-
Start	534	End	2321
Name	OJ000112_15.0426.C22.o3.tm	Method	TBLASTX:Maize
Start	2161	End	2319
GI	none	Score	165
Exons	2161..2319, 2161..2319		
Seq. No.	54782	Seq. ID	OJ000112_15.0426.C23
Gene No.	114868	Strand	+
Start	708	End	1408
Name	OJ000112_15.0426.C23.o1.gs	Method	GENSCAN
Start	708	End	1375

GI	none	Score	.85
Exons	708..842, 938..1375		

Seq. No.	54782	Seq. ID	OJ000112_15.0426.C23
Gene No.	114868	Strand	+
Start	708	End	1408
Name	OJ000112_15.0426.C23.o1.tm	Method	TBLASTX:Maize
Start	710	End	1408
GI	none	Score	67
Exons	710..757, 711..758, 722..760, 804..911, 833..928, 858..917, 926..1381, 1036..1380, 1226..1408		

Seq. No.	54782	Seq. ID	OJ000112_15.0426.C23
Gene No.	114868	Strand	+
Start	708	End	1408
Name	OJ000112_15.0426.C23.o1.tc	Method	TBLASTX:Cress
Start	717	End	1297
GI	none	Score	40
Exons	717..758, 813..911, 926..1297, 1039..1119		

Seq. No.	54782	Seq. ID	OJ000112_15.0426.C23
Gene No.	114868	Strand	+
Start	708	End	1408
Name	OJ000112_15.0426.C23.o1.np	Method	AAT/NAP
Start	723	End	1387
GI	4586054	Score	523
Exons	723..784, 812..1387		
GI Descrip.	(AC007020) unknown protein [Arabidopsis thaliana]		

Seq. No.	54782	Seq. ID	OJ000112_15.0426.C23
Gene No.	114868	Strand	+
Start	708	End	1408
Name	OJ000112_15.0426.C23.o1.ts	Method	TBLASTX:Soybean
Start	807	End	1297
GI	none	Score	91
Exons	807..911, 926..1297, 1039..1116, 1180..1296		

Seq. No.	54782	Seq. ID	OJ000112_15.0426.C23
Gene No.	114868	Strand	+
Start	708	End	1408
Name	OJ000112_15.0426.C23.o1.tw	Method	TBLASTX:Wheat
Start	1130	End	1300
GI	none	Score	193
Exons	1130..1300, 1174..1299		

Seq. No.	54783	Seq. ID	OJ000112_15.0426.C24
Gene No.	114869	Strand	+
Start	4130	End	8489
Name	OJ000112_15.0426.C24.o2.gs	Method	GENSCAN
Start	4130	End	8489
GI	none	Score	.67
Exons	4130..5185, 5432..5641, 5874..5984, 6839..6925, 7825..7873, 8249..8341, 8395..8489		

Seq. No.	54783	Seq. ID	OJ000112_15.0426.C24
Gene No.	114870	Strand	+
Start	12325	End	15297

Name	OJ000112_15.0426.C24.o4.gs	Method	GENSCAN
Start	12325	End	14899
GI	none	Score	.47
Exons	12325..12331, 12950..13280, 13852..13981, 14369..14899		

Seq. No.	54783	Seq. ID	OJ000112_15.0426.C24
Gene No.	114870	Strand	+
Start	12325	End	15297
Name	OJ000112_15.0426.C24.o2.np	Method	AAT/NAP
Start	12715	End	15297
GI	4586056	Score	1252
Exons	12715..13370, 13852..13981, 14369..14899, 15202..15297		
GI Descrip.	(AC007020) unknown protein [Arabidopsis thaliana]		

Seq. No.	54783	Seq. ID	OJ000112_15.0426.C24
Gene No.	114871	Strand	-
Start	1	End	1442
Name	OJ000112_15.0426.C24.o1.np	Method	AAT/NAP
Start	1	End	1442
GI	4586053	Score	1019
Exons	1..332, 429..557, 663..907, 1052..1203, 1341..1442		
GI Descrip.	(AC007020) putative laccase (diphenol oxidase) [Arabidopsis thaliana]		

Seq. No.	54783	Seq. ID	OJ000112_15.0426.C24
Gene No.	114871	Strand	-
Start	1	End	1442
Name	OJ000112_15.0426.C24.o1.gs	Method	GENSCAN
Start	38	End	1436
GI	none	Score	.8
Exons	38..557, 663..907, 1052..1203, 1341..1436		

Seq. No.	54783	Seq. ID	OJ000112_15.0426.C24
Gene No.	114872	Strand	-
Start	8702	End	11776
Name	OJ000112_15.0426.C24.o12.tm	Method	TBLASTX:Maize
Start	10	End	151
GI	none	Score	117
Exons	10..150, 11..151		

Seq. No.	54783	Seq. ID	OJ000112_15.0426.C24
Gene No.	114872	Strand	-
Start	8702	End	11776
Name	OJ000112_15.0426.C24.o4.tc	Method	TBLASTX:Cress
Start	52	End	292
GI	none	Score	103
Exons	52..291, 88..282, 122..292		

Seq. No.	54783	Seq. ID	OJ000112_15.0426.C24
Gene No.	114872	Strand	-
Start	8702	End	11776
Name	OJ000112_15.0426.C24.o4.ts	Method	TBLASTX:Soybean
Start	58	End	270
GI	none	Score	119
Exons	58..270, 88..270		

Seq. No.	54783	Seq. ID	OJ000112_15.0426.C24

Gene No.	114872	Strand	-
Start	8702	End	11776
Name	OJ000112_15.0426.C24.o3.tm	Method	TBLASTX:Maize
Start	151	End	807
GI	none	Score	131
Exons	151..330, 151..330, 185..334, 658..696, 677..769, 697..807,	409..558, 425..559, 437..559, 722..802	

Seq. No.	54783	Seq. ID	OJ000112_15.0426.C24
Gene No.	114872	Strand	-
Start	8702	End	11776
Name	OJ000112_15.0426.C24.o3.tw	Method	TBLASTX:Wheat
Start	226	End	556
GI	none	Score	71
Exons	226..333, 227..334, 406..555,	434..556	

Seq. No.	54783	Seq. ID	OJ000112_15.0426.C24
Gene No.	114872	Strand	-
Start	8702	End	11776
Name	OJ000112_15.0426.C24.o2.ts	Method	TBLASTX:Soybean
Start	466	End	1213
GI	none	Score	95
Exons	466..558, 467..559, 658..906,	662..907, 1048..1203, 1052..1213	

Seq. No.	54783	Seq. ID	OJ000112_15.0426.C24
Gene No.	114872	Strand	-
Start	8702	End	11776
Name	OJ000112_15.0426.C24.o2.tc	Method	TBLASTX:Cress
Start	658	End	1125
GI	none	Score	182
Exons	658..906, 662..907, 1048..1125		

Seq. No.	54783	Seq. ID	OJ000112_15.0426.C24
Gene No.	114872	Strand	-
Start	8702	End	11776
Name	OJ000112_15.0426.C24.o2.tw	Method	TBLASTX:Wheat
Start	658	End	907
GI	none	Score	235
Exons	658..906, 662..904, 674..907		

Seq. No.	54783	Seq. ID	OJ000112_15.0426.C24
Gene No.	114872	Strand	-
Start	8702	End	11776
Name	OJ000112_15.0426.C24.o7.tm	Method	TBLASTX:Maize
Start	4245	End	4888
GI	none	Score	67
Exons	4245..4355, 4528..4884, 4529..4660,	4613..4888, 4739..4885	

Seq. No.	54783	Seq. ID	OJ000112_15.0426.C24
Gene No.	114872	Strand	-
Start	8702	End	11776
Name	OJ000112_15.0426.C24.o5.ts	Method	TBLASTX:Soybean
Start	4613	End	4936
GI	none	Score	60
Exons	4613..4660, 4664..4906, 4739..4936		

Seq. No.	54783	Seq. ID	OJ000112_15.0426.C24

Gene No.	114872	Strand	-
Start	8702	End	11776
Name	OJ000112_15.0426.C24.o11.tm	Method	TBLASTX:Maize
Start	4991	End	5491
GI	none	Score	204
Exons	4991..5185, 4995..5189, 5020..5190, 5021..5185, 5435..5491		

Seq. No.	54783	Seq. ID	OJ000112_15.0426.C24
Gene No.	114872	Strand	-
Start	8702	End	11776
Name	OJ000112_15.0426.C24.o3.ts	Method	TBLASTX:Soybean
Start	5020	End	7782
GI	none	Score	81
Exons	5020..5145, 5021..5116, 5108..5185, 5429..5641, 5435..5638, 5731..5874, 5736..5873, 5880..5984, 6833..6925, 7690..7782		

Seq. No.	54783	Seq. ID	OJ000112_15.0426.C24
Gene No.	114872	Strand	-
Start	8702	End	11776
Name	OJ000112_15.0426.C24.o4.tm	Method	TBLASTX:Maize
Start	5492	End	7849
GI	none	Score	159
Exons	5492..5641, 5494..5658, 5495..5638, 5723..5881, 5725..5889, 5883..5999, 5885..6016, 6830..6925, 6832..6915, 6836..6925, 6837..6926, 6838..6933, 7673..7849, 7697..7825		

Seq. No.	54783	Seq. ID	OJ000112_15.0426.C24
Gene No.	114872	Strand	-
Start	8702	End	11776
Name	OJ000112_15.0426.C24.o3.gs	Method	GENSCAN
Start	8702	End	11776
GI	none	Score	.53
Exons	8702..9462, 10137..10301, 10492..11776		

Seq. No.	54783	Seq. ID	OJ000112_15.0426.C24
Gene No.	114872	Strand	-
Start	8702	End	11776
Name	OJ000112_15.0426.C24.o9.tm	Method	TBLASTX:Maize
Start	8780	End	9307
GI	none	Score	92
Exons	8780..8905, 8993..9190, 9008..9307, 9096..9191		

Seq. No.	54783	Seq. ID	OJ000112_15.0426.C24
Gene No.	114872	Strand	-
Start	8702	End	11776
Name	OJ000112_15.0426.C24.o6.tw	Method	TBLASTX:Wheat
Start	9002	End	9196
GI	none	Score	176
Exons	9002..9196		

Seq. No.	54783	Seq. ID	OJ000112_15.0426.C24
Gene No.	114872	Strand	-
Start	8702	End	11776
Name	OJ000112_15.0426.C24.o10.tm	Method	TBLASTX:Maize
Start	9413	End	9705
GI	none	Score	127
Exons	9413..9520, 9515..9697, 9526..9705		

Seq. No.	54783	Seq. ID	OJ000112_15.0426.C24
Gene No.	114872	Strand	-
Start	8702	End	11776
Name	OJ000112_15.0426.C24.o6.ts	Method	TBLASTX:Soybean
Start	9589	End	10143
GI	none	Score	74
Exons	9589..9732, 9626..9766, 9793..9954, 9985..10143		

Seq. No.	54783	Seq. ID	OJ000112_15.0426.C24
Gene No.	114872	Strand	-
Start	8702	End	11776
Name	OJ000112_15.0426.C24.o1.tw	Method	TBLASTX:Wheat
Start	9682	End	10119
GI	none	Score	143
Exons	9682..9807, 9820..10119, 9833..10105		

Seq. No.	54783	Seq. ID	OJ000112_15.0426.C24
Gene No.	114872	Strand	-
Start	8702	End	11776
Name	OJ000112_15.0426.C24.o2.tm	Method	TBLASTX:Maize
Start	9763	End	10449
GI	none	Score	47
Exons	9763..10449, 9764..9820, 9856..10131, 9923..10426		

Seq. No.	54783	Seq. ID	OJ000112_15.0426.C24
Gene No.	114872	Strand	-
Start	8702	End	11776
Name	OJ000112_15.0426.C24.o5.tw	Method	TBLASTX:Wheat
Start	10237	End	10524
GI	none	Score	77
Exons	10237..10524, 10256..10351		

Seq. No.	54783	Seq. ID	OJ000112_15.0426.C24
Gene No.	114872	Strand	-
Start	8702	End	11776
Name	OJ000112_15.0426.C24.o6.tm	Method	TBLASTX:Maize
Start	10450	End	10795
GI	none	Score	160
Exons	10450..10752, 10451..10750, 10748..10795		

Seq. No.	54783	Seq. ID	OJ000112_15.0426.C24
Gene No.	114872	Strand	-
Start	8702	End	11776
Name	OJ000112_15.0426.C24.o5.tm	Method	TBLASTX:Maize
Start	10964	End	11404
GI	none	Score	172
Exons	10964..11404, 11001..11249		

Seq. No.	54783	Seq. ID	OJ000112_15.0426.C24
Gene No.	114872	Strand	-
Start	8702	End	11776
Name	OJ000112_15.0426.C24.o4.tw	Method	TBLASTX:Wheat
Start	11387	End	11776
GI	none	Score	203
Exons	11387..11776		

Seq. No.	54783	Seq. ID	OJ000112_15.0426.C24
Gene No.	114873	Strand	
Start	12919	End	15296
Name	OJ000112_15.0426.C24.o8.tm	Method	TBLASTX:Maize
Start	12919	End	13275
GI	none	Score	100
Exons	12919..13017, 12924..13016, 13099..13275, 13101..13208, 13180..13275		

Seq. No.	54783	Seq. ID	OJ000112_15.0426.C24
Gene No.	114873	Strand	
Start	12919	End	15296
Name	OJ000112_15.0426.C24.o1.ts	Method	TBLASTX:Soybean
Start	12987	End	15296
GI	none	Score	78
Exons	12987..13154, 13102..13155, 13165..13371, 13167..13208, 13850..14011, 13852..13977, 13874..13981, 14366..14485, 14369..14497, 14374..14502, 14503..14715, 14521..14895, 14522..14899, 14764..14910, 15177..15296, 15199..15294		

Seq. No.	54783	Seq. ID	OJ000112_15.0426.C24
Gene No.	114873	Strand	
Start	12919	End	15296
Name	OJ000112_15.0426.C24.o3.tc	Method	TBLASTX:Cress
Start	13126	End	14422
GI	none	Score	46
Exons	13126..13164, 13140..13169, 13159..13371, 13167..13370, 13849..13974, 13850..13981, 14375..14422		

Seq. No.	54783	Seq. ID	OJ000112_15.0426.C24
Gene No.	114873	Strand	
Start	12919	End	15296
Name	OJ000112_15.0426.C24.o1.tc	Method	TBLASTX:Cress
Start	14423	End	14821
GI	none	Score	355
Exons	14423..14821, 14425..14817		

Seq. No.	54783	Seq. ID	OJ000112_15.0426.C24
Gene No.	114873	Strand	
Start	12919	End	15296
Name	OJ000112_15.0426.C24.o1.tm	Method	TBLASTX:Maize
Start	14431	End	14872
GI	none	Score	369
Exons	14431..14715, 14440..14754, 14441..14755, 14483..14755, 14703..14867, 14754..14867, 14755..14868, 14758..14871, 14759..14872		

Seq. No.	54784	Seq. ID	OJ000112_15.0426.C28
Gene No.	114874	Strand	+
Start	54	End	80
Name	OJ000112_15.0426.C28.o1.gs	Method	GENSCAN
Start	54	End	80
GI	none	Score	.64
Exons	54..80		

Seq. No.	54784	Seq. ID	OJ000112_15.0426.C28
Gene No.	114875	Strand	-

Start	663	End	913
Name	OJ000112_15.0426.C28.o2.gs	Method	GENSCAN
Start	663	End	913
GI	none	Score	.86
Exons	663..811, 883..913		

Seq. No.	54784	Seq. ID	OJ000112_15.0426.C28
Gene No.	114876	Strand	-
Start	835	End	1144
Name	OJ000112_15.0426.C28.o1.gp	Method	AAT/GAP
Start	835	End	1144
GI	uC-osf1cyp176c02b1	Score	600
Exons	835..1144		
GI Descrip.	'619085/emb|Z47172|CSPAG13 3.0e-11 Calothrix D253 genomic DNA (clone AG13)'		

Seq. No.	54785	Seq. ID	OJ000112_15.0426.C31
Gene No.	114877	Strand	-
Start	1	End	783
Name	OJ000112_15.0426.C31.o1.np	Method	AAT/NAP
Start	1	End	773
GI	4406756	Score	388
Exons	1..170, 539..773		
GI Descrip.	(AC006836) unknown protein [Arabidopsis thaliana]		

Seq. No.	54785	Seq. ID	OJ000112_15.0426.C31
Gene No.	114877	Strand	-
Start	1	End	783
Name	OJ000112_15.0426.C31.o1.tc	Method	TBLASTX:Cress
Start	27	End	753
GI	none	Score	129
Exons	27..173, 28..171, 539..565, 585..752, 592..753		

Seq. No.	54785	Seq. ID	OJ000112_15.0426.C31
Gene No.	114877	Strand	-
Start	1	End	783
Name	OJ000112_15.0426.C31.o1.ts	Method	TBLASTX:Soybean
Start	27	End	783
GI	none	Score	119
Exons	27..173, 28..171, 591..782, 592..783		

Seq. No.	54785	Seq. ID	OJ000112_15.0426.C31
Gene No.	114877	Strand	-
Start	1	End	783
Name	OJ000112_15.0426.C31.o1.tm	Method	TBLASTX:Maize
Start	27	End	774
GI	none	Score	126
Exons	27..173, 28..171, 54..173, 534..569, 585..773, 592..774		

Seq. No.	54785	Seq. ID	OJ000112_15.0426.C31
Gene No.	114877	Strand	-
Start	1	End	783
Name	OJ000112_15.0426.C31.o1.gs	Method	GENSCAN
Start	32	End	773
GI	none	Score	.68
Exons	32..170, 426..520, 539..773		

Seq. No.	54786	Seq. ID	OJ000112_15.0426.C35
Gene No.	114878	Strand	+
Start	52	End	1041
Name	OJ000112_15.0426.C35.o1.gs	Method	GENSCAN
Start	52	End	1041
GI	none	Score	.56
Exons	52..1041		

Seq. No.	54787	Seq. ID	OJ000112_14.0426.C1
Gene No.	114879	Strand	+
Start	360	End	452
Name	OJ000112_14.0426.C1.o1.gs	Method	GENSCAN
Start	360	End	452
GI	none	Score	.57
Exons	360..452		

Seq. No.	54788	Seq. ID	OJ000112_14.0426.C2
Gene No.	114880	Strand	+
Start	1	End	580
Name	OJ000112_14.0426.C2.o1.np	Method	AAT/NAP
Start	1	End	385
GI	3785974	Score	476
Exons	1..385		
GI Descrip.	(AC005560) putative ATP-dependent DNA helicase RECG [Arabidopsis thaliana]		

Seq. No.	54788	Seq. ID	OJ000112_14.0426.C2
Gene No.	114880	Strand	+
Start	1	End	580
Name	OJ000112_14.0426.C2.o1.gs	Method	GENSCAN
Start	169	End	564
GI	none	Score	.63
Exons	169..355, 472..564		

Seq. No.	54788	Seq. ID	OJ000112_14.0426.C2
Gene No.	114880	Strand	+
Start	1	End	580
Name	OJ000112_14.0426.C2.o1.tm	Method	TBLASTX:Maize
Start	269	End	580
GI	none	Score	132
Exons	269..355, 281..358, 282..359, 479..580	470..568, 471..572, 475..570,	

Seq. No.	54789	Seq. ID	OJ000112_14.0426.C3
Gene No.	114881	Strand	-
Start	200	End	321
Name	OJ000112_14.0426.C3.o1.gs	Method	GENSCAN
Start	200	End	321
GI	none	Score	.8
Exons	200..321		

Seq. No.	54790	Seq. ID	OJ000112_14.0426.C6
Gene No.	114882	Strand	+
Start	1	End	606
Name	OJ000112_14.0426.C6.o1.np	Method	AAT/NAP
Start	1	End	603
GI	836954	Score	309

Exons	1..172, 277..603		
GI Descrip.	(U20948) receptor protein kinase [Ipomoea trifida]		
Seq. No.	54790	Seq. ID	OJ000112_14.0426.C6
Gene No.	114882	Strand	+
Start	1	End	606
Name	OJ000112_14.0426.C6.o1.gs	Method	GENSCAN
Start	29	End	606
GI	none	Score	.98
Exons	29..172, 277..606		
Seq. No.	54790	Seq. ID	OJ000112_14.0426.C6
Gene No.	114883	Strand	-
Start	414	End	717
Name	OJ000112_14.0426.C6.o1.tm	Method	TBLASTX:Maize
Start	22	End	605
GI	none	Score	214
Exons	22..189, 23..181, 25..189, 277..492, 312..455, 550..600, 564..605		
Seq. No.	54790	Seq. ID	OJ000112_14.0426.C6
Gene No.	114883	Strand	-
Start	414	End	717
Name	OJ000112_14.0426.C6.o1.ts	Method	TBLASTX:Soybean
Start	22	End	600
GI	none	Score	160
Exons	22..117, 23..187, 26..151, 277..489, 312..446, 565..600		
Seq. No.	54790	Seq. ID	OJ000112_14.0426.C6
Gene No.	114883	Strand	-
Start	414	End	717
Name	OJ000112_14.0426.C6.o1.tc	Method	TBLASTX:Cress
Start	26	End	513
GI	none	Score	141
Exons	26..160, 28..117, 277..513, 363..446		
Seq. No.	54790	Seq. ID	OJ000112_14.0426.C6
Gene No.	114883	Strand	-
Start	414	End	717
Name	OJ000112_14.0426.C6.o1.gp	Method	AAT/GAP
Start	414	End	717
GI	none	Score	592
Exons	414..717		
Seq. No.	54791	Seq. ID	OJ000112_14.0426.C7
Gene No.	114884	Strand	+
Start	587	End	1322
Name	OJ000112_14.0426.C7.o1.gs	Method	GENSCAN
Start	587	End	1322
GI	none	Score	.43
Exons	587..792, 1202..1322		
Seq. No.	54792	Seq. ID	OJ000112_14.0426.C8
Gene No.	114885	Strand	+
Start	2852	End	4321
Name	OJ000112_14.0426.C8.o2.gs	Method	GENSCAN
Start	2852	End	4321

GI	none	Score	1
Exons	2852..4321		

Seq. No.	54792	Seq. ID	OJ000112_14.0426.C8
Gene No.	114886	Strand	-
Start	565	End	2621
Name	OJ000112_14.0426.C8.o1.gs	Method	GENSCAN
Start	565	End	2621
GI	none	Score	.86
Exons	565..696, 807..1208, 1818..1892, 2006..2149, 2439..2621		

Seq. No.	54792	Seq. ID	OJ000112_14.0426.C8
Gene No.	114886	Strand	-
Start	565	End	2621
Name	OJ000112_14.0426.C8.o1.np	Method	AAT/NAP
Start	571	End	2510
GI	7470502	Score	128
Exons	571..690, 807..1192, 1257..1380, 1503..1739, 1821..1892, 2006..2107, 2403..2510		
GI Descrip.	hypothetical protein slr1794 - Synechocystis sp. (strain PCC 6803) gi|1651887|dbj|BAA16814.1| (D90900) hypothetical protein [Synechocystis sp.]		

Seq. No.	54792	Seq. ID	OJ000112_14.0426.C8
Gene No.	114886	Strand	-
Start	565	End	2621
Name	OJ000112_14.0426.C8.o3.tm	Method	TBLASTX:Maize
Start	634	End	1004
GI	none	Score	85
Exons	634..699, 635..697, 635..700, 788..997, 801..1001, 802..1002, 807..1004		

Seq. No.	54792	Seq. ID	OJ000112_14.0426.C8
Gene No.	114886	Strand	-
Start	565	End	2621
Name	OJ000112_14.0426.C8.o1.tm	Method	TBLASTX:Maize
Start	1393	End	2511
GI	none	Score	84
Exons	1393..1467, 1400..1471, 1400..1468, 1549..1737, 1551..1739, 1552..1737, 1553..1744, 1815..1892, 1820..1906, 1824..1895, 2003..2149, 2007..2153, 2008..2154, 2470..2511		

Seq. No.	54792	Seq. ID	OJ000112_14.0426.C8
Gene No.	114886	Strand	-
Start	565	End	2621
Name	OJ000112_14.0426.C8.o1.ts	Method	TBLASTX:Soybean
Start	1824	End	2149
GI	none	Score	121
Exons	1824..1892, 2003..2149, 2007..2147		

Seq. No.	54792	Seq. ID	OJ000112_14.0426.C8
Gene No.	114887	Strand	
Start	3604	End	3775
Name	OJ000112_14.0426.C8.o5.tm	Method	TBLASTX:Maize
Start	3604	End	3775
GI	none	Score	198
Exons	3604..3714, 3605..3760, 3614..3775		

Seq. No.	54792	Seq. ID	OJ000112_14.0426.C8
Gene No.	114888	Strand	
Start	3776	End	4048
Name	OJ000112_14.0426.C8.o2.tm	Method	TBLASTX:Maize
Start	3776	End	4048
GI	none	Score	354
Exons	3776..4048, 3776..4033, 3778..4047		

Seq. No.	54792	Seq. ID	OJ000112_14.0426.C8
Gene No.	114889	Strand	
Start	4049	End	4344
Name	OJ000112_14.0426.C8.o4.tm	Method	TBLASTX:Maize
Start	4049	End	4344
GI	none	Score	120
Exons	4049..4135, 4049..4135, 4051..4164, 4149..4319, 4151..4321, 4153..4344		

Seq. No.	54793	Seq. ID	OJ000112_14.0426.C9
Gene No.	114890	Strand	+
Start	509	End	3692
Name	OJ000112_14.0426.C9.o1.gs	Method	GENSCAN
Start	509	End	3692
GI	none	Score	81
Exons	509..571, 1160..1210, 1460..1585, 1931..2117, 2273..2562, 2644..2787, 2866..2979, 3504..3692		

Seq. No.	54793	Seq. ID	OJ000112_14.0426.C9
Gene No.	114890	Strand	+
Start	509	End	3692
Name	OJ000112_14.0426.C9.o2.np	Method	AAT/NAP
Start	628	End	3685
GI	6056406	Score	91
Exons	628..646, 3072..3165, 3277..3406, 3532..3685		
GI Descrip.	(AC009525) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	54793	Seq. ID	OJ000112_14.0426.C9
Gene No.	114890	Strand	+
Start	509	End	3692
Name	OJ000112_14.0426.C9.o1.gp	Method	AAT/GAP
Start	1155	End	1309
GI	177_2.R1084	Score	195
Exons	1155..1309		
GI Descrip.	'4107001/dbj|BAA36299| 1.0e-170 (D82035) OSK4 [Oryza sativa]'		

Seq. No.	54793	Seq. ID	OJ000112_14.0426.C9
Gene No.	114890	Strand	+
Start	509	End	3692
Name	OJ000112_14.0426.C9.o2.gp	Method	AAT/GAP
Start	1428	End	2415
GI	none	Score	874
Exons	1428..1585, 1931..2117, 2273..2415		

Seq. No.	54793	Seq. ID	OJ000112_14.0426.C9
Gene No.	114891	Strand	-
Start	1083	End	1392
Name	OJ000112_14.0426.C9.o1.np	Method	AAT/NAP

Start	1083	End	1392
GI	6063539	Score	117
Exons	1083..1193, 1231..1392		
GI Descrip.	(AP000615) hypothetical protein [Oryza sativa]		

Seq. No.	54793	Seq. ID	OJ000112_14.0426.C9
Gene No.	114892	Strand	-
Start	4392	End	4531
Name	OJ000112_14.0426.C9.o1.tm	Method	TBLASTX:Maize
Start	2342	End	3667
GI	none	Score	149
Exons	2342..2557, 2346..2561, 2356..2562, 2361..2561, 2643..2705, 2643..2789, 2647..2790, 2864..2962, 2866..2964, 2870..2968, 2875..2967, 3082..3177, 3082..3183, 3084..3182, 3086..3184, 3280..3378, 3284..3379, 3285..3380, 3503..3667, 3507..3641, 3526..3642		

Seq. No.	54793	Seq. ID	OJ000112_14.0426.C9
Gene No.	114892	Strand	-
Start	4392	End	4531
Name	OJ000112_14.0426.C9.o3.gp	Method	AAT/GAP
Start	4392	End	4531
GI	none	Score	199
Exons	4392..4531		

Seq. No.	54794	Seq. ID	OJ000112_14.0426.C10
Gene No.	114893	Strand	-
Start	1	End	1923
Name	OJ000112_14.0426.C10.o1.gp	Method	AAT/GAP
Start	1	End	70
GI	none	Score	104
Exons	1..70		

Seq. No.	54794	Seq. ID	OJ000112_14.0426.C10
Gene No.	114893	Strand	-
Start	1	End	1923
Name	OJ000112_14.0426.C10.o1.np	Method	AAT/NAP
Start	1	End	1851
GI	5302797	Score	705
Exons	1..132, 218..290, 377..430, 521..585, 684..753, 829..929, 1004..1071, 1347..1512, 1588..1851		
GI Descrip.	(Z97341) HSP like protein [Arabidopsis thaliana]		

Seq. No.	54794	Seq. ID	OJ000112_14.0426.C10
Gene No.	114893	Strand	-
Start	1	End	1923
Name	OJ000112_14.0426.C10.o2.tm	Method	TBLASTX:Maize
Start	5	End	1079
GI	none	Score	58
Exons	5..88, 21..68, 215..289, 215..292, 363..440, 369..440, 379..441, 526..588, 527..586, 681..764, 685..756, 826..930, 828..932, 829..930, 830..949, 831..932, 1001..1078, 1002..1079		

Seq. No.	54794	Seq. ID	OJ000112_14.0426.C10
Gene No.	114893	Strand	-
Start	1	End	1923
Name	OJ000112_14.0426.C10.o1.gs	Method	GENSCAN

Start	218	End	1837
GI	none	Score	.97
Exons	218..290, 377..438, 529..585, 684..753, 829..929, 1004..1078, 1351..1512, 1588..1837		

Seq. No.	54794	Seq. ID	OJ000112_14.0426.C10
Gene No.	114893	Strand	-
Start	1	End	1923
Name	OJ000112_14.0426.C10.o2.gp	Method	AAT/GAP
Start	221	End	1681
GI	12380_1.R1084	Score	1235
Exons	221..290, 377..438, 529..585, 684..753, 829..929, 1004..1078, 1351..1512, 1588..1681		
GI Descrip.	'5302797/emb|CAB46039.1| 8.0e-71 (Z97341) HSP like protein [Arabidopsis thaliana]'		

Seq. No.	54794	Seq. ID	OJ000112_14.0426.C10
Gene No.	114893	Strand	-
Start	1	End	1923
Name	OJ000112_14.0426.C10.o2.tc	Method	TBLASTX:Cress
Start	520	End	1515
GI	none	Score	86
Exons	520..588, 828..932, 832..930, 1333..1515		

Seq. No.	54794	Seq. ID	OJ000112_14.0426.C10
Gene No.	114893	Strand	-
Start	1	End	1923
Name	OJ000112_14.0426.C10.o1.ts	Method	TBLASTX:Soybean
Start	828	End	1831
GI	none	Score	117
Exons	828..932, 829..930, 1001..1081, 1339..1524, 1501..1773, 1589..1690, 1645..1830, 1691..1831		

Seq. No.	54794	Seq. ID	OJ000112_14.0426.C10
Gene No.	114893	Strand	-
Start	1	End	1923
Name	OJ000112_14.0426.C10.o1.tm	Method	TBLASTX:Maize
Start	1348	End	1923
GI	none	Score	202
Exons	1348..1524, 1353..1520, 1562..1690, 1585..1749, 1586..1690, 1626..1907, 1669..1923, 1692..1763, 1694..1921		

Seq. No.	54794	Seq. ID	OJ000112_14.0426.C10
Gene No.	114893	Strand	-
Start	1	End	1923
Name	OJ000112_14.0426.C10.o1.tc	Method	TBLASTX:Cress
Start	1600	End	1923
GI	none	Score	176
Exons	1600..1770, 1666..1923, 1760..1921		

Seq. No.	54795	Seq. ID	OJ000112_14.0426.C11
Gene No.	114894	Strand	-
Start	242	End	10667
Name	OJ000112_14.0426.C11.o1.tm	Method	TBLASTX:Maize
Start	236	End	1127
GI	none	Score	189
Exons	236..379, 240..383, 240..380, 241..384, 473..727, 480..734,		

488..724, 1009..1119, 1014..1127, 1014..1112

Seq. No.	54795	Seq. ID	OJ000112_14.0426.C11
Gene No.	114894	Strand	-
Start	242	End	10667
Name	OJ000112_14.0426.C11.o1.gs	Method	GENSCAN
Start	242	End	3295
GI	none	Score	.9
Exons	242..378, 476..721, 1014..1173, 2064..2296, 2519..3295		

Seq. No.	54795	Seq. ID	OJ000112_14.0426.C11
Gene No.	114894	Strand	-
Start	242	End	10667
Name	OJ000112_14.0426.C11.o1.np	Method	AAT/NAP
Start	425	End	6968
GI	7488118	Score	1562
Exons	425..721, 1014..1173, 2064..2296, 2519..3281, 6883..6968		
GI Descrip.	probable growth regulator - Arabidopsis thaliana gi|2245020|emb|CAB10440.1| (Z97341) growth regulator like protein [Arabidopsis thaliana] gi|7268415|emb|CAB78707.1| (AL161544) growth regulator like protein [Arabidopsis thaliana]		

Seq. No.	54795	Seq. ID	OJ000112_14.0426.C11
Gene No.	114894	Strand	-
Start	242	End	10667
Name	OJ000112_14.0426.C11.o1.ts	Method	TBLASTX:Soybean
Start	488	End	2557
GI	none	Score	159
Exons	488..727, 489..659, 494..724, 1009..1176, 1014..1109, 1081..1179, 2047..2307, 2051..2314, 2064..2297, 2152..2298, 2513..2557		

Seq. No.	54795	Seq. ID	OJ000112_14.0426.C11
Gene No.	114894	Strand	-
Start	242	End	10667
Name	OJ000112_14.0426.C11.o3.tm	Method	TBLASTX:Maize
Start	2516	End	2791
GI	none	Score	340
Exons	2516..2767, 2517..2765, 2519..2791, 2557..2781		

Seq. No.	54795	Seq. ID	OJ000112_14.0426.C11
Gene No.	114894	Strand	-
Start	242	End	10667
Name	OJ000112_14.0426.C11.o1.tw	Method	TBLASTX:Wheat
Start	2591	End	3038
GI	none	Score	59
Exons	2591..2680, 2591..2641, 2642..2767, 2643..2765, 2645..2785, 2680..2784, 2759..2848, 2810..2977, 2969..3037, 2969..3037, 2970..3038		

Seq. No.	54795	Seq. ID	OJ000112_14.0426.C11
Gene No.	114894	Strand	-
Start	242	End	10667
Name	OJ000112_14.0426.C11.o2.tm	Method	TBLASTX:Maize
Start	2918	End	3197
GI	none	Score	276
Exons	2918..3196, 2940..3197		

Seq. No.	54795	Seq. ID	OJ000112_14.0426.C11
Gene No.	114894	Strand	-
Start	242	End	10667
Name	OJ000112_14.0426.C11.o1.tc	Method	TBLASTX:Cress
Start	2936	End	3197
GI	none	Score	127
Exons	2936..3196, 2973..3197		

Seq. No.	54795	Seq. ID	OJ000112_14.0426.C11
Gene No.	114894	Strand	-
Start	242	End	10667
Name	OJ000112_14.0426.C11.o2.ts	Method	TBLASTX:Soybean
Start	2993	End	3197
GI	none	Score	83
Exons	2993..3196, 3002..3169, 3009..3197		

Seq. No.	54795	Seq. ID	OJ000112_14.0426.C11
Gene No.	114894	Strand	-
Start	242	End	10667
Name	OJ000112_14.0426.C11.o4.tm	Method	TBLASTX:Maize
Start	4169	End	4480
GI	none	Score	129
Exons	4169..4270, 4177..4278, 4179..4274, 4391..4468, 4394..4480		

Seq. No.	54795	Seq. ID	OJ000112_14.0426.C11
Gene No.	114894	Strand	-
Start	242	End	10667
Name	OJ000112_14.0426.C11.o2.gs	Method	GENSCAN
Start	4185	End	10143
GI	none	Score	.84
Exons	4185..4277, 4394..4966, 5101..5184, 5772..5930, 6211..6297, 6870..7013, 7452..7523, 8012..8245, 8704..8793, 8983..9127, 9488..9651, 9909..10143		

Seq. No.	54795	Seq. ID	OJ000112_14.0426.C11
Gene No.	114894	Strand	-
Start	242	End	10667
Name	OJ000112_14.0426.C11.o2.np	Method	AAT/NAP
Start	4364	End	10667
GI	3785974	Score	1774
Exons	4364..4966, 5101..5184, 5772..5930, 6870..7010, 7161..7244, 7452..7523, 8012..8245, 8704..8793, 9094..9174, 9488..9651, 9909..10145, 10647..10667		
GI Descrip.	(AC005560) putative ATP-dependent DNA helicase RECG [Arabidopsis thaliana]		

Seq. No.	54795	Seq. ID	OJ000112_14.0426.C11
Gene No.	114894	Strand	-
Start	242	End	10667
Name	OJ000112_14.0426.C11.o1.gp	Method	AAT/GAP
Start	5857	End	7149
GI	3106617	Score	484
Exons	5857..5930, 6870..7013, 7092..7149		
GI Descrip.	3785974 6.0e-09 (AC005560) putative DNA recombinase [Arabidopsis thaliana]		

Seq. No.	54795	Seq. ID	OJ000112_14.0426.C11
Gene No.	114894	Strand	-
Start	242	End	10667
Name	OJ000112_14.0426.C11.o3.ts	Method	TBLASTX:Soybean
Start	6861	End	7181
GI	none	Score	48
Exons	6861..6902, 6870..6908, 6904..7014, 6906..7016, 7087..7179, 7095..7181		

Seq. No.	54795	Seq. ID	OJ000112_14.0426.C11
Gene No.	114894	Strand	-
Start	242	End	10667
Name	OJ000112_14.0426.C11.o5.tm	Method	TBLASTX:Maize
Start	6997	End	7250
GI	none	Score	50
Exons	6997..7041, 6999..7067, 7045..7083, 7071..7154, 7086..7154, 7087..7161, 7087..7155, 7158..7250, 7159..7248		

Seq. No.	54796	Seq. ID	OJ000112_14.0426.C12
Gene No.	114895	Strand	+
Start	2465	End	3009
Name	OJ000112_14.0426.C12.o1.gs	Method	GENSCAN
Start	2465	End	3009
GI	none	Score	.76
Exons	2465..2566, 2797..3009		

Seq. No.	54796	Seq. ID	OJ000112_14.0426.C12
Gene No.	114896	Strand	-
Start	1	End	1606
Name	OJ000112_14.0426.C12.o1.np	Method	AAT/NAP
Start	1	End	1606
GI	3785974	Score	136
Exons	1..47, 919..1043, 1129..1606		
GI Descrip.	(AC005560) putative ATP-dependent DNA helicase RECG [Arabidopsis thaliana]		

Seq. No.	54796	Seq. ID	OJ000112_14.0426.C12
Gene No.	114897	Strand	-
Start	2599	End	4338
Name	OJ000112_14.0426.C12.o2.np	Method	AAT/NAP
Start	2599	End	4173
GI	6523547	Score	80
Exons	2599..2670, 2701..3011, 4000..4173		
GI Descrip.	(AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox carteri f. nagariensis]		

Seq. No.	54796	Seq. ID	OJ000112_14.0426.C12
Gene No.	114897	Strand	-
Start	2599	End	4338
Name	OJ000112_14.0426.C12.o2.gs	Method	GENSCAN
Start	3949	End	4338
GI	none	Score	.97
Exons	3949..4338		

Seq. No.	54797	Seq. ID	OJ000112_14.0426.C13
Gene No.	114898	Strand	-
Start	24	End	235

Name	OJ000112_14.0426.C13.o1.gs	Method	GENSCAN
Start	24	End	235
GI	none	Score	.83
Exons	24..235		

Seq. No.	54797	Seq. ID	OJ000112_14.0426.C13
Gene No.	114899	Strand	-
Start	2331	End	2957
Name	OJ000112_14.0426.C13.o2.gs	Method	GENSCAN
Start	2331	End	2957
GI	none	Score	.65
Exons	2331..2511, 2527..2688, 2756..2957		

Seq. No.	54798	Seq. ID	OJ000112_14.0426.C14
Gene No.	114900	Strand	+
Start	602	End	1545
Name	OJ000112_14.0426.C14.o1.gs	Method	GENSCAN
Start	602	End	1545
GI	none	Score	.83
Exons	602..1182, 1281..1545		

Seq. No.	54798	Seq. ID	OJ000112_14.0426.C14
Gene No.	114901	Strand	+
Start	2020	End	2103
Name	OJ000112_14.0426.C14.o2.gs	Method	GENSCAN
Start	2020	End	2103
GI	none	Score	.53
Exons	2020..2103		

Seq. No.	54799	Seq. ID	OJ000112_14.0426.C15
Gene No.	114902	Strand	-
Start	1	End	8964
Name	OJ000112_14.0426.C15.o1.np	Method	AAT/NAP
Start	1	End	3453
GI	7428021	Score	325
Exons	1..235, 344..461, 3417..3453		
GI Descrip.	S-receptor kinase (EC 2.7.1.-) T6K22.120 precursor - Arabidopsis thaliana gi|3402758|emb|CAA20204.1| (AL031187) serine/threonine kinase-like protein [Arabidopsis thaliana] gi|7268936|emb|CAB81246.1| (AL161555) serine/threonine kinase-like protein [Arabidopsis thaliana]		

Seq. No.	54799	Seq. ID	OJ000112_14.0426.C15
Gene No.	114902	Strand	-
Start	1	End	8964
Name	OJ000112_14.0426.C15.o1.tw	Method	TBLASTX:Wheat
Start	18	End	410
GI	none	Score	157
Exons	18..197, 47..244, 342..410		

Seq. No.	54799	Seq. ID	OJ000112_14.0426.C15
Gene No.	114902	Strand	-
Start	1	End	8964
Name	OJ000112_14.0426.C15.o1.tc	Method	TBLASTX:Cress
Start	24	End	484
GI	none	Score	153
Exons	24..161, 27..203, 47..238, 344..484, 345..482		

Seq. No.	54799	Seq. ID	OJ000112_14.0426.C15
Gene No.	114902	Strand	-
Start	1	End	8964
Name	OJ000112_14.0426.C15.o1.gs	Method	GENSCAN
Start	25	End	8912
GI	none	Score	.61
Exons	25..235, 344..489, 588..695, 818..927, 2737..2764, 3265..3425, 3472..3668, 3693..3853, 6128..6231, 6529..6639, 7343..7415, 7464..7680, 8429..8560, 8658..8912		

Seq. No.	54799	Seq. ID	OJ000112_14.0426.C15
Gene No.	114902	Strand	-
Start	1	End	8964
Name	OJ000112_14.0426.C15.o1.ts	Method	TBLASTX:Soybean
Start	39	End	454
GI	none	Score	127
Exons	39..197, 50..238, 333..443, 344..454		

Seq. No.	54799	Seq. ID	OJ000112_14.0426.C15
Gene No.	114902	Strand	-
Start	1	End	8964
Name	OJ000112_14.0426.C15.o1.tm	Method	TBLASTX:Maize
Start	144	End	690
GI	none	Score	84
Exons	144..203, 146..238, 344..490, 345..470, 589..687, 589..690		

Seq. No.	54799	Seq. ID	OJ000112_14.0426.C15
Gene No.	114902	Strand	-
Start	1	End	8964
Name	OJ000112_14.0426.C15.o3.np	Method	AAT/NAP
Start	5315	End	7616
GI	5001454	Score	115
Exons	5315..5350, 7317..7616		
GI Descrip.	(AC007730) putative non-LTR retrolelement reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	54799	Seq. ID	OJ000112_14.0426.C15
Gene No.	114902	Strand	-
Start	1	End	8964
Name	OJ000112_14.0426.C15.o2.np	Method	AAT/NAP
Start	6443	End	8964
GI	6069646	Score	448
Exons	6443..7412, 8909..8964		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	54799	Seq. ID	OJ000112_14.0426.C15
Gene No.	114902	Strand	-
Start	1	End	8964
Name	OJ000112_14.0426.C15.o2.tm	Method	TBLASTX:Maize
Start	6471	End	6976
GI	none	Score	55
Exons	6471..6656, 6540..6662, 6678..6908, 6718..6909, 6932..6976		

Seq. No.	54799	Seq. ID	OJ000112_14.0426.C15
Gene No.	114902	Strand	-
Start	1	End	8964
Name	OJ000112_14.0426.C15.o2.tw	Method	TBLASTX:Wheat
Start	6564	End	6939
GI	none	Score	97
Exons	6564..6596, 6717..6905, 6718..6939, 6890..6928		

Seq. No.	54799	Seq. ID	OJ000112_14.0426.C15
Gene No.	114902	Strand	-
Start	1	End	8964
Name	OJ000112_14.0426.C15.o3.tm	Method	TBLASTX:Maize
Start	7288	End	7617
GI	none	Score	128
Exons	7288..7614, 7307..7588, 7327..7617		

Seq. No.	54799	Seq. ID	OJ000112_14.0426.C15
Gene No.	114902	Strand	-
Start	1	End	8964
Name	OJ000112_14.0426.C15.o4.np	Method	AAT/NAP
Start	7762	End	8762
GI	6693022	Score	136
Exons	7762..7893, 8407..8560, 8658..8762		
GI Descrip.	(AC012375) T22C5.19 [Arabidopsis thaliana]		

Seq. No.	54800	Seq. ID	OJ000112_14.0426.C16
Gene No.	114903	Strand	+
Start	228	End	1231
Name	OJ000112_14.0426.C16.o1.gs	Method	GENSCAN
Start	228	End	1231
GI	none	Score	.81
Exons	228..383, 1106..1231		

Seq. No.	54800	Seq. ID	OJ000112_14.0426.C16
Gene No.	114904	Strand	+
Start	2357	End	2861
Name	OJ000112_14.0426.C16.o2.gs	Method	GENSCAN
Start	2357	End	2861
GI	none	Score	.82
Exons	2357..2435, 2447..2614, 2848..2861		

Seq. No.	54800	Seq. ID	OJ000112_14.0426.C16
Gene No.	114905	Strand	-
Start	4572	End	4825
Name	OJ000112_14.0426.C16.o3.gs	Method	GENSCAN
Start	4572	End	4825
GI	none	Score	.52
Exons	4572..4825		

Seq. No.	54801	Seq. ID	OJ000112_14.0426.C18
Gene No.	114906	Strand	-
Start	458	End	4646
Name	OJ000112_14.0426.C18.o1.gs	Method	GENSCAN
Start	458	End	4646
GI	none	Score	.62
Exons	458..610, 2959..3038, 3234..3360, 4544..4646		

Seq. No.	54801	Seq. ID	OJ000112_14.0426.C18
Gene No.	114907	Strand	-
Start	5866	End	8572
Name	OJ000112_14.0426.C18.o2.gs	Method	GENSCAN
Start	5866	End	8572
GI	none	Score	.51
Exons	5866..6061, 6066..6160, 8555..8572		

Seq. No.	54802	Seq. ID	OJ000112_14.0426.C21
Gene No.	114908	Strand	-
Start	6812	End	7309
Name	OJ000112_14.0426.C21.o2.gs	Method	GENSCAN
Start	6812	End	7309
GI	none	Score	.58
Exons	6812..6921, 7219..7309		

Seq. No.	54803	Seq. ID	OJ000112_14.0426.C22
Gene No.	114909	Strand	+
Start	269	End	6117
Name	OJ000112_14.0426.C22.o1.gs	Method	GENSCAN
Start	269	End	6117
GI	none	Score	.63
Exons	269..415, 1050..1259, 1655..1908, 1995..2265, 2369..2452, 2911..4137, 4161..4903, 5014..5197, 5365..5555, 5976..6117		

Seq. No.	54803	Seq. ID	OJ000112_14.0426.C22
Gene No.	114909	Strand	+
Start	269	End	6117
Name	OJ000112_14.0426.C22.o1.np	Method	AAT/NAP
Start	993	End	5571
GI	7488926	Score	1213
Exons	993..1259, 1655..1908, 1995..2265, 2369..2452, 2798..4223, 4350..5197, 5458..5571		
GI Descrip.	nuclear matrix constituent protein 1 - carrot gi|2190187|dbj|BAA20407.1| (D64087) nuclear matrix constituent protein 1 (NMCP1) [Daucus carota]		

Seq. No.	54803	Seq. ID	OJ000112_14.0426.C22
Gene No.	114909	Strand	+
Start	269	End	6117
Name	OJ000112_14.0426.C22.o1.gp	Method	AAT/GAP
Start	2221	End	4276
GI	28205_1.R1084	Score	3061
Exons	2221..2265, 2369..2452, 2798..4276		
GI Descrip.	'4850405/gb|AAD31075.1|AC007357_24 1.0e-57 (AC007357) Similar to gb_D64087 nuclear matrix constituent protein 1 (NMCP1) from Daucus carota. [Arabidopsis thaliana]'		

Seq. No.	54803	Seq. ID	OJ000112_14.0426.C22
Gene No.	114909	Strand	+
Start	269	End	6117
Name	OJ000112_14.0426.C22.o2.gp	Method	AAT/GAP
Start	5014	End	5863
GI	none	Score	1270
Exons	5014..5197, 5365..5863		

Seq. No.	54803	Seq. ID	OJ000112_14.0426.C22
Gene No.	114910	Strand	+
Start	7364	End	10161
Name	OJ000112_14.0426.C22.o2.tm	Method	TBLASTX:Maize
Start	1703	End	2899
GI	none	Score	219
Exons	1703..1909, 1713..1901, 1996..2265, 1996..2079, 2025..2291, 2027..2149, 2085..2267, 2195..2287, 2795..2851, 2796..2870, 2801..2899		

Seq. No.	54803	Seq. ID	OJ000112_14.0426.C22
Gene No.	114910	Strand	+
Start	7364	End	10161
Name	OJ000112_14.0426.C22.o1.ts	Method	TBLASTX:Soybean
Start	3070	End	3390
GI	none	Score	236
Exons	3070..3390, 3196..3330		

Seq. No.	54803	Seq. ID	OJ000112_14.0426.C22
Gene No.	114910	Strand	+
Start	7364	End	10161
Name	OJ000112_14.0426.C22.o4.tm	Method	TBLASTX:Maize
Start	3070	End	3453
GI	none	Score	63
Exons	3070..3252, 3109..3300, 3119..3301, 3124..3303, 3304..3387, 3306..3344, 3314..3451, 3376..3453		

Seq. No.	54803	Seq. ID	OJ000112_14.0426.C22
Gene No.	114910	Strand	+
Start	7364	End	10161
Name	OJ000112_14.0426.C22.o1.tm	Method	TBLASTX:Maize
Start	3454	End	5540
GI	none	Score	103
Exons	3454..3630, 3461..3631, 3493..3633, 3501..3635, 3618..3878, 3620..4087, 3692..4021, 3826..4089, 3835..4104, 4112..4357, 4113..4337, 4120..4347, 4361..4663, 4362..4571, 4362..4679, 4364..4675, 4558..4680, 4620..4703, 4692..4850, 4695..4778, 4737..4898, 4743..4889, 4789..4914, 5030..5122, 5031..5123, 5031..5123, 5078..5128, 5121..5150, 5121..5150, 5123..5167, 5168..5200, 5395..5451, 5439..5540, 5455..5538		

Seq. No.	54803	Seq. ID	OJ000112_14.0426.C22
Gene No.	114910	Strand	+
Start	7364	End	10161
Name	OJ000112_14.0426.C22.o3.gp	Method	AAT/GAP
Start	7291	End	8527
GI	none	Score	767
Exons	7291..7492, 7894..8052, 8473..8527		

Seq. No.	54803	Seq. ID	OJ000112_14.0426.C22
Gene No.	114910	Strand	+
Start	7364	End	10161
Name	OJ000112_14.0426.C22.o2.gs	Method	GENSCAN
Start	7364	End	10161
GI	none	Score	.64
Exons	7364..7492, 7894..8052, 9760..10161		

Seq. No.	54803	Seq. ID	OJ000112_14.0426.C22
Gene No.	114910	Strand	+
Start	7364	End	10161
Name	OJ000112_14.0426.C22.o3.tm	Method	TBLASTX:Maize
Start	7893	End	10134
GI	none	Score	217
Exons	7893..8051, 7894..8052, 7975..8061, 8459..8542, 8460..8546, 8465..8542, 8473..8547, 8606..8746, 8637..8756, 8640..8747, 8955..9044, 8957..9046, 8957..9046, 8958..9047, 8962..9054, 9457..9519, 9458..9520, 9462..9515, 9741..10028, 9748..10032, 9748..10071, 10034..10084, 10036..10083, 10084..10131, 10099..10134		

Seq. No.	54803	Seq. ID	OJ000112_14.0426.C22
Gene No.	114910	Strand	+
Start	7364	End	10161
Name	OJ000112_14.0426.C22.o4.gp	Method	AAT/GAP
Start	8642	End	9985
GI	none	Score	799
Exons	8642..8745, 8959..9043, 9465..9519, 9760..9985		

Seq. No.	54804	Seq. ID	OJ000112_14.0426.C23
Gene No.	114911	Strand	+
Start	1	End	5659
Name	OJ000112_14.0426.C23.o1.np	Method	AAT/NAP
Start	1	End	5430
GI	7296240	Score	466
Exons	1..89, 499..600, 679..789, 1182..1253, 1389..1505, 1840..1989, 2480..2580, 3371..3720, 5348..5430		
GI Descrip.	(AE003590) CG11490 gene product [Drosophila melanogaster]		

Seq. No.	54804	Seq. ID	OJ000112_14.0426.C23
Gene No.	114911	Strand	+
Start	1	End	5659
Name	OJ000112_14.0426.C23.o1.gs	Method	GENSCAN
Start	465	End	5659
GI	none	Score	.79
Exons	465..600, 679..789, 1182..1253, 1389..1505, 1840..1989, 2480..2580, 2926..3012, 3371..3689, 5121..5208, 5430..5659		

Seq. No.	54804	Seq. ID	OJ000112_14.0426.C23
Gene No.	114911	Strand	+
Start	1	End	5659
Name	OJ000112_14.0426.C23.o1.gp	Method	AAT/GAP
Start	476	End	2577
GI	42246_1.R1084	Score	1103
Exons	476..600, 679..789, 1182..1253, 1389..1505, 1840..1989, 2480..2577		
GI Descrip.	'5734466/emb|CAB52727.1| 9.0e-33 (AL109832) putative gtpase activating protein [Schizosaccharomyces pombe]'		

Seq. No.	54804	Seq. ID	OJ000112_14.0426.C23
Gene No.	114912	Strand	-
Start	3422	End	4066
Name	OJ000112_14.0426.C23.o2.gp	Method	AAT/GAP
Start	3422	End	4066
GI	none	Score	1209

Exons	3422..4066		
Seq. No.	54804	Seq. ID	OJ000112_14.0426.C23
Gene No.	114913	Strand	-
Start	6906	End	8581
Name	OJ000112_14.0426.C23.o1.tm	Method	TBLASTX:Maize
Start	493	End	3707
GI	none	Score	163
Exons	493..603, 494..604, 501..608, 676..777, 678..788, 679..789, 1168..1260, 1179..1256, 1181..1261, 1387..1512, 1388..1504, 1388..1528, 1389..1529, 1396..1530, 1803..1988, 1820..1987, 1821..1991, 1831..1992, 1837..2004, 2471..2614, 2477..2584, 3368..3667, 3368..3706, 3369..3707		
Seq. No.	54804	Seq. ID	OJ000112_14.0426.C23
Gene No.	114913	Strand	-
Start	6906	End	8581
Name	OJ000112_14.0426.C23.o1.ts	Method	TBLASTX:Soybean
Start	499	End	3703
GI	none	Score	142
Exons	499..648, 501..689, 666..785, 679..789, 1178..1255, 1179..1256, 1180..1266, 1388..1528, 1389..1529, 1821..1907, 1831..1899, 1898..1984, 1899..1985, 1903..1992, 1906..1998, 2471..2614, 2477..2584, 2478..2621, 3364..3519, 3368..3649, 3368..3703, 3369..3689		
Seq. No.	54804	Seq. ID	OJ000112_14.0426.C23
Gene No.	114913	Strand	-
Start	6906	End	8581
Name	OJ000112_14.0426.C23.o1.tc	Method	TBLASTX:Cress
Start	2549	End	3656
GI	none	Score	70
Exons	2549..2614, 3368..3544, 3368..3655, 3369..3656		
Seq. No.	54804	Seq. ID	OJ000112_14.0426.C23
Gene No.	114913	Strand	-
Start	6906	End	8581
Name	OJ000112_14.0426.C23.o2.gs	Method	GENSCAN
Start	6906	End	8581
GI	none	Score	.46
Exons	6906..7027, 7145..7343, 7544..7653, 8416..8581		
Seq. No.	54805	Seq. ID	OJ000112_14.0426.C24
Gene No.	114914	Strand	-
Start	42	End	628
Name	OJ000112_14.0426.C24.o1.gs	Method	GENSCAN
Start	42	End	628
GI	none	Score	.75
Exons	42..628		
Seq. No.	54805	Seq. ID	OJ000112_14.0426.C24
Gene No.	114915	Strand	-
Start	630	End	1212
Name	OJ000112_14.0426.C24.o1.np	Method	AAT/NAP
Start	630	End	1212
GI	4006833	Score	219
Exons	630..1212		

GI Descrip. (AC005970) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]

Seq. No.	54805	Seq. ID	OJ000112_14.0426.C24
Gene No.	114916	Strand	-
Start	1922	End	3309
Name	OJ000112_14.0426.C24.o3.tm	Method	TBLASTX:Maize
Start	12	End	265
GI	none	Score	85
Exons	12..179, 12..179, 13..216, 176..265, 207..257		

Seq. No.	54805	Seq. ID	OJ000112_14.0426.C24
Gene No.	114916	Strand	-
Start	1922	End	3309
Name	OJ000112_14.0426.C24.o2.tw	Method	TBLASTX:Wheat
Start	135	End	514
GI	none	Score	200
Exons	135..179, 161..514		

Seq. No.	54805	Seq. ID	OJ000112_14.0426.C24
Gene No.	114916	Strand	-
Start	1922	End	3309
Name	OJ000112_14.0426.C24.o4.tm	Method	TBLASTX:Maize
Start	407	End	692
GI	none	Score	94
Exons	407..514, 521..613, 606..692		

Seq. No.	54805	Seq. ID	OJ000112_14.0426.C24
Gene No.	114916	Strand	-
Start	1922	End	3309
Name	OJ000112_14.0426.C24.o2.ts	Method	TBLASTX:Soybean
Start	630	End	1139
GI	none	Score	154
Exons	630..728, 750..782, 789..1139		

Seq. No.	54805	Seq. ID	OJ000112_14.0426.C24
Gene No.	114916	Strand	-
Start	1922	End	3309
Name	OJ000112_14.0426.C24.o1.tw	Method	TBLASTX:Wheat
Start	678	End	1118
GI	none	Score	61
Exons	678..836, 679..735, 822..1118, 838..1116		

Seq. No.	54805	Seq. ID	OJ000112_14.0426.C24
Gene No.	114916	Strand	-
Start	1922	End	3309
Name	OJ000112_14.0426.C24.o2.tm	Method	TBLASTX:Maize
Start	751	End	1214
GI	none	Score	62
Exons	751..1011, 759..1214, 1051..1212		

Seq. No.	54805	Seq. ID	OJ000112_14.0426.C24
Gene No.	114916	Strand	-
Start	1922	End	3309
Name	OJ000112_14.0426.C24.o1.gp	Method	AAT/GAP
Start	1632	End	1979
GI	none	Score	610

Exons	1632..1979		
Seq. No.	54805	Seq. ID	OJ000112_14.0426.C24
Gene No.	114916	Strand	-
Start	1922	End	3309
Name	OJ000112_14.0426.C24.o1.ts	Method	TBLASTX:Soybean
Start	1901	End	2429
GI	none	Score	143
Exons	1901..2053, 1926..2051, 2081..2236, 2085..2234, 2379..2429		
Seq. No.	54805	Seq. ID	OJ000112_14.0426.C24
Gene No.	114916	Strand	-
Start	1922	End	3309
Name	OJ000112_14.0426.C24.o1.tm	Method	TBLASTX:Maize
Start	1922	End	2233
GI	none	Score	103
Exons	1922..2014, 1926..2015, 1952..2053, 2007..2051, 2081..2233, 2085..2225		
Seq. No.	54805	Seq. ID	OJ000112_14.0426.C24
Gene No.	114916	Strand	-
Start	1922	End	3309
Name	OJ000112_14.0426.C24.o2.gs	Method	GENSCAN
Start	1922	End	2918
GI	none	Score	1
Exons	1922..2313, 2363..2918		
Seq. No.	54805	Seq. ID	OJ000112_14.0426.C24
Gene No.	114916	Strand	-
Start	1922	End	3309
Name	OJ000112_14.0426.C24.o2.np	Method	AAT/NAP
Start	1925	End	3309
GI	7487599	Score	412
Exons	1925..2238, 2376..2584, 3260..3309		
GI Descrip.	hypothetical protein T32G6.18 - Arabidopsis thaliana gi|2618701|gb|AAB84348.1| (AC002510) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	54805	Seq. ID	OJ000112_14.0426.C24
Gene No.	114916	Strand	-
Start	1922	End	3309
Name	OJ000112_14.0426.C24.o2.gp	Method	AAT/GAP
Start	1997	End	2473
GI	LIB3433-014-Q6-K1-H3	Score	638
Exons	1997..2238, 2363..2473		
GI Descrip.	'2618701 5.0e-26 (AC002510) hypothetical protein [Arabidopsis thaliana]'		
Seq. No.	54806	Seq. ID	OJ000112_14.0426.C25
Gene No.	114917	Strand	+
Start	160	End	2236
Name	OJ000112_14.0426.C25.o1.gs	Method	GENSCAN
Start	160	End	2236
GI	none	Score	.47
Exons	160..258, 1553..1799, 2127..2236		
Seq. No.	54806	Seq. ID	OJ000112_14.0426.C25

Gene No.	114918	Strand	+
Start	2421	End	2688
Name	OJ000112_14.0426.C25.o2.gs	Method	GENSCAN
Start	2421	End	2688
GI	none	Score	.95
Exons	2421..2480, 2485..2688		

Seq. No.	54807	Seq. ID	OJ000112_14.0426.C26
Gene No.	114919	Strand	+
Start	2394	End	2928
Name	OJ000112_14.0426.C26.o1.gp	Method	AAT/GAP
Start	2394	End	2928
GI	none	Score	928
Exons	2394..2928		

Seq. No.	54807	Seq. ID	OJ000112_14.0426.C26
Gene No.	114920	Strand	-
Start	2861	End	2920
Name	OJ000112_14.0426.C26.o1.gs	Method	GENSCAN
Start	2861	End	2920
GI	none	Score	.41
Exons	2861..2920		

Seq. No.	54808	Seq. ID	OJ000112_14.0426.C27
Gene No.	114921	Strand	-
Start	1	End	9189
Name	OJ000112_14.0426.C27.o1.gp	Method	AAT/GAP
Start	1	End	397
GI	none	Score	594
Exons	1..201, 280..397		

Seq. No.	54808	Seq. ID	OJ000112_14.0426.C27
Gene No.	114921	Strand	-
Start	1	End	9189
Name	OJ000112_14.0426.C27.o1.np	Method	AAT/NAP
Start	1	End	5450
GI	7294858	Score	275
Exons	1..108, 413..516, 854..958, 1022..1492, 2705..2820, 5418..5450		
GI Descrip.	(AE003550) CalpB gene product [Drosophila melanogaster]		

Seq. No.	54808	Seq. ID	OJ000112_14.0426.C27
Gene No.	114921	Strand	-
Start	1	End	9189
Name	OJ000112_14.0426.C27.o1.tm	Method	TBLASTX:Maize
Start	1	End	1234
GI	none	Score	281
Exons	1..210, 2..202, 2..217, 280..513, 280..519, 284..520, 860..943, 861..959, 861..959, 945..998, 949..999, 958..1011, 959..1012, 1079..1234, 1080..1226, 1081..1227		

Seq. No.	54808	Seq. ID	OJ000112_14.0426.C27
Gene No.	114921	Strand	-
Start	1	End	9189
Name	OJ000112_14.0426.C27.o1.ts	Method	TBLASTX:Soybean
Start	4	End	498
GI	none	Score	236
Exons	4..210, 5..202, 280..498, 284..496		

Seq. No.	54808	Seq. ID	OJ000112_14.0426.C27
Gene No.	114921	Strand	-
Start	1	End	9189
Name	OJ000112_14.0426.C27.o1.gs	Method	GENSCAN
Start	64	End	9189
GI	none	Score	.78
Exons	64..201, 280..516, 860..915, 997..1462, 2687..2815, 2936..3040, 3161..3366, 3396..3477, 3871..4070, 4091..4128, 4321..4640, 4962..5259, 5354..5469, 5550..5941, 6197..6224, 6255..6326, 6577..6739, 6895..6986, 7583..7694, 7779..7929, 8024..8297, 8696..8858, 9108..9189		

Seq. No.	54808	Seq. ID	OJ000112_14.0426.C27
Gene No.	114921	Strand	-
Start	1	End	9189
Name	OJ000112_14.0426.C27.o3.tc	Method	TBLASTX:Cress
Start	439	End	1220
GI	none	Score	101
Exons	439..519, 440..520, 441..524, 860..943, 861..959, 862..981, 862..981, 958..1011, 968..1009, 1079..1219, 1080..1220		

Seq. No.	54808	Seq. ID	OJ000112_14.0426.C27
Gene No.	114921	Strand	-
Start	1	End	9189
Name	OJ000112_14.0426.C27.o2.gp	Method	AAT/GAP
Start	464	End	3201
GI	24913_1.R1084	Score	1555
Exons	464..516, 860..996, 1082..1462, 2687..2815, 2936..3040, 3161..3201		
GI Descrip.	'465763/sp|P34308|YKR2_CAEEL 4.0e-45 HYPOTHETICAL 70.9 KD PROTEIN C06G4.2 IN CHROMOSOME III >gi_630525_pir__S44749 C06G4.2 protein - Caenorhabditis elegans >gi_409293 (L25598) homology with calpain; putative [Caenorhabditis elegans]'		

Seq. No.	54808	Seq. ID	OJ000112_14.0426.C27
Gene No.	114921	Strand	-
Start	1	End	9189
Name	OJ000112_14.0426.C27.o2.ts	Method	TBLASTX:Soybean
Start	2751	End	4134
GI	none	Score	77
Exons	2751..2822, 2752..2826, 2753..2818, 2930..3040, 2931..3041, 2936..3043, 3155..3391, 3160..3381, 3231..3383, 3383..3412, 3391..3480, 3396..3479, 3778..4071, 3805..4077, 3809..4072, 4080..4130, 4081..4134		

Seq. No.	54808	Seq. ID	OJ000112_14.0426.C27
Gene No.	114921	Strand	-
Start	1	End	9189
Name	OJ000112_14.0426.C27.o1.tc	Method	TBLASTX:Cress
Start	2786	End	3958
GI	none	Score	80
Exons	2786..2818, 2936..3040, 2946..3041, 3155..3391, 3156..3365, 3290..3397, 3383..3412, 3391..3480, 3396..3473, 3397..3474, 3805..3948, 3805..3954, 3809..3958		

Seq. No.	54808	Seq. ID	OJ000112_14.0426.C27

Gene No.	114921	Strand	-
Start	1	End	9189
Name	OJ000112_14.0426.C27.o3.tm	Method	TBLASTX:Maize
Start	2798	End	3314
GI	none	Score	35
Exons	2798..2818, 2799..2819, 2930..3040, 2931..3041, 2936..3043, 3155..3313, 3156..3314		

Seq. No.	54808	Seq. ID	OJ000112_14.0426.C27
Gene No.	114921	Strand	-
Start	1	End	9189
Name	OJ000112_14.0426.C27.o2.tm	Method	TBLASTX:Maize
Start	3776	End	4131
GI	none	Score	64
Exons	3776..3817, 3776..4057, 3777..3827, 3778..3828, 3817..4077, 3818..4078, 3822..4079, 4077..4130, 4080..4130, 4081..4131		

Seq. No.	54808	Seq. ID	OJ000112_14.0426.C27
Gene No.	114921	Strand	-
Start	1	End	9189
Name	OJ000112_14.0426.C27.o2.tc	Method	TBLASTX:Cress
Start	3985	End	4623
GI	none	Score	38
Exons	3985..4077, 3986..4075, 4078..4131, 4080..4130, 4277..4492, 4296..4622, 4296..4622, 4303..4623		

Seq. No.	54808	Seq. ID	OJ000112_14.0426.C27
Gene No.	114921	Strand	-
Start	1	End	9189
Name	OJ000112_14.0426.C27.o4.tm	Method	TBLASTX:Maize
Start	4296	End	4550
GI	none	Score	185
Exons	4296..4469, 4299..4463, 4306..4470, 4467..4547, 4468..4545, 4470..4550		

Seq. No.	54808	Seq. ID	OJ000112_14.0426.C27
Gene No.	114921	Strand	-
Start	1	End	9189
Name	OJ000112_14.0426.C27.o4.tc	Method	TBLASTX:Cress
Start	5610	End	5927
GI	none	Score	123
Exons	5610..5705, 5610..5705, 5611..5706, 5727..5885, 5739..5927, 5740..5922		

Seq. No.	54809	Seq. ID	OJ000112_14.0426.C28
Gene No.	114922	Strand	-
Start	401	End	1241
Name	OJ000112_14.0426.C28.o1.gs	Method	GENSCAN
Start	401	End	1241
GI	none	Score	.8
Exons	401..1241		

Seq. No.	54810	Seq. ID	OJ000112_14.0426.C29
Gene No.	114923	Strand	-
Start	396	End	798
Name	OJ000112_14.0426.C29.o1.gs	Method	GENSCAN
Start	396	End	798

GI	none	Score	.56
Exons	396..798		

Seq. No.	54810	Seq. ID	OJ000112_14.0426.C29
Gene No.	114924	Strand	-
Start	7731	End	8246
Name	OJ000112_14.0426.C29.o1.np	Method	AAT/NAP
Start	7731	End	8246
GI	81286	Score	69
Exons	7731..7890, 8020..8089, 8130..8246		
GI Descrip.	extensin - Volvox carteri (fragment) gi|21992|emb|CAA46283| (X65165) extensin [Volvox carteri]		

Seq. No.	54811	Seq. ID	OJ000112_14.0426.C30
Gene No.	114925	Strand	+
Start	688	End	757
Name	OJ000112_14.0426.C30.o1.gs	Method	GENSCAN
Start	688	End	757
GI	none	Score	.69
Exons	688..757		

Seq. No.	54811	Seq. ID	OJ000112_14.0426.C30
Gene No.	114926	Strand	-
Start	246	End	330
Name	OJ000112_14.0426.C30.o1.np	Method	AAT/NAP
Start	246	End	330
GI	6721547	Score	84
Exons	246..330		
GI Descrip.	(AP001073) Similar to Oryza sativa gene for Pib. (AB013448)		

Seq. No.	54811	Seq. ID	OJ000112_14.0426.C30
Gene No.	114927	Strand	-
Start	2534	End	2746
Name	OJ000112_14.0426.C30.o2.gs	Method	GENSCAN
Start	2534	End	2746
GI	none	Score	.67
Exons	2534..2746		

Seq. No.	54812	Seq. ID	OJ000112_17.0426.C1
Gene No.	114928	Strand	-
Start	1057	End	7124
Name	OJ000112_17.0426.C1.o1.gs	Method	GENSCAN
Start	1057	End	7124
GI	none	Score	.54
Exons	1057..1357, 3920..4118, 4849..4990, 5235..5560, 6924..7002, 7119..7124		

Seq. No.	54812	Seq. ID	OJ000112_17.0426.C1
Gene No.	114928	Strand	-
Start	1057	End	7124
Name	OJ000112_17.0426.C1.o1.gp	Method	AAT/GAP
Start	5361	End	5599
GI	2797225	Score	456
Exons	5361..5599		

Seq. No.	54813	Seq. ID	OJ000112_17.0426.C2
Gene No.	114929	Strand	+

Start	4942	End	12743
Name	OJ000112_17.0426.C2.o2.np	Method	AAT/NAP
Start	4942	End	12743
GI	6006359	Score	56
Exons	4942..5095, 12720..12743		
GI Descrip.	(AP000559) hypothetical protein [Oryza sativa]		

Seq. No.	54813	Seq. ID	OJ000112_17.0426.C2
Gene No.	114929	Strand	+
Start	4942	End	12743
Name	OJ000112_17.0426.C2.o2.gs	Method	GENSCAN
Start	7593	End	8311
GI	none	Score	.8
Exons	7593..7874, 7976..8311		

Seq. No.	54813	Seq. ID	OJ000112_17.0426.C2
Gene No.	114930	Strand	-
Start	131	End	5667
Name	OJ000112_17.0426.C2.o1.gs	Method	GENSCAN
Start	131	End	5667
GI	none	Score	.62
Exons	131..280, 850..981, 1062..1124, 2669..2824, 2886..2920, 3083..3156, 3677..4321, 4519..4668, 4726..4915, 5316..5432, 5538..5667		

Seq. No.	54813	Seq. ID	OJ000112_17.0426.C2
Gene No.	114930	Strand	-
Start	131	End	5667
Name	OJ000112_17.0426.C2.o1.np	Method	AAT/NAP
Start	2230	End	4887
GI	7106508	Score	97
Exons	2230..2301, 4231..4577, 4723..4887		
GI Descrip.	(AP001278) hypothetical protein [Oryza sativa]		

Seq. No.	54813	Seq. ID	OJ000112_17.0426.C2
Gene No.	114931	Strand	-
Start	9084	End	12743
Name	OJ000112_17.0426.C2.o1.tm	Method	TBLASTX:Maize
Start	3308	End	9648
GI	none	Score	71
Exons	3308..3460, 9096..9281, 9144..9266, 9282..9512, 9297..9512, 9322..9513, 9525..9635, 9526..9648		

Seq. No.	54813	Seq. ID	OJ000112_17.0426.C2
Gene No.	114931	Strand	-
Start	9084	End	12743
Name	OJ000112_17.0426.C2.o3.np	Method	AAT/NAP
Start	9035	End	12743
GI	6069646	Score	517
Exons	9035..10051, 12672..12743		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	54813	Seq. ID	OJ000112_17.0426.C2

Gene No.	114931	Strand	-
Start	9084	End	12743
Name	OJ000112_17.0426.C2.o3.gs	Method	GENSCAN
Start	9084	End	11268
GI	none	Score	.42
Exons	9084..9272, 11152..11268		

Seq. No.	54813	Seq. ID	OJ000112_17.0426.C2
Gene No.	114931	Strand	-
Start	9084	End	12743
Name	OJ000112_17.0426.C2.o1.tw	Method	TBLASTX:Wheat
Start	9168	End	9513
GI	none	Score	96
Exons	9168..9200, 9321..9509, 9322..9513		

Seq. No.	54813	Seq. ID	OJ000112_17.0426.C2
Gene No.	114931	Strand	-
Start	9084	End	12743
Name	OJ000112_17.0426.C2.o2.tm	Method	TBLASTX:Maize
Start	9783	End	10079
GI	none	Score	74
Exons	9783..10079, 9928..10074		

Seq. No.	54814	Seq. ID	OJ000112_17.0426.C3
Gene No.	114932	Strand	+
Start	623	End	2760
Name	OJ000112_17.0426.C3.o1.gp	Method	AAT/GAP
Start	623	End	1346
GI	none	Score	895
Exons	623..971, 1102..1196, 1310..1346		

Seq. No.	54814	Seq. ID	OJ000112_17.0426.C3
Gene No.	114932	Strand	+
Start	623	End	2760
Name	OJ000112_17.0426.C3.o1.ts	Method	TBLASTX:Soybean
Start	787	End	1423
GI	none	Score	77
Exons	787..822, 913..975, 914..976, 1092..1193, 1100..1195, 1289..1408, 1307..1423, 1308..1421		

Seq. No.	54814	Seq. ID	OJ000112_17.0426.C3
Gene No.	114932	Strand	+
Start	623	End	2760
Name	OJ000112_17.0426.C3.o1.gs	Method	GENSCAN
Start	836	End	2200
GI	none	Score	.79
Exons	836..971, 1276..1410, 1490..1752, 2069..2200		

Seq. No.	54814	Seq. ID	OJ000112_17.0426.C3
Gene No.	114932	Strand	+
Start	623	End	2760
Name	OJ000112_17.0426.C3.o1.tm	Method	TBLASTX:Maize
Start	1082	End	1755
GI	none	Score	155
Exons	1082..1195, 1101..1193, 1144..1194, 1298..1408, 1307..1414, 1308..1442, 1467..1751, 1489..1755		

Seq. No.	54814	Seq. ID	OJ000112_17.0426.C3
Gene No.	114932	Strand	+
Start	623	End	2760
Name	OJ000112_17.0426.C3.o1.np	Method	AAT/NAP
Start	1227	End	2760
GI	3075393	Score	285
Exons	1227..1410, 1490..1752, 2069..2200, 2287..2386, 2728..2760		
GI Descrip.	(AC004484) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	54815	Seq. ID	OJ000112_17.0426.C4
Gene No.	114933	Strand	+
Start	1	End	952
Name	OJ000112_17.0426.C4.o1.np	Method	AAT/NAP
Start	1	End	952
GI	3075393	Score	235
Exons	1..31, 339..557, 628..781, 928..952		
GI Descrip.	(AC004484) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	54815	Seq. ID	OJ000112_17.0426.C4
Gene No.	114933	Strand	+
Start	1	End	952
Name	OJ000112_17.0426.C4.o1.gs	Method	GENSCAN
Start	328	End	781
GI	none	Score	.8
Exons	328..557, 628..781		

Seq. No.	54815	Seq. ID	OJ000112_17.0426.C4
Gene No.	114933	Strand	+
Start	1	End	952
Name	OJ000112_17.0426.C4.o1.ts	Method	TBLASTX:Soybean
Start	340	End	534
GI	none	Score	193
Exons	340..534, 354..500		

Seq. No.	54816	Seq. ID	OJ000112_17.0426.C5
Gene No.	114934	Strand	+
Start	916	End	1004
Name	OJ000112_17.0426.C5.o1.gs	Method	GENSCAN
Start	916	End	1004
GI	none	Score	.91
Exons	916..1004		

Seq. No.	54817	Seq. ID	OJ000112_17.0426.C8
Gene No.	114935	Strand	+
Start	1192	End	5379
Name	OJ000112_17.0426.C8.o1.np	Method	AAT/NAP
Start	1192	End	5373
GI	7430636	Score	1608
Exons	1192..2127, 4747..5373		
GI Descrip.	probable cytochrome P450, hypersensitivity-related - common tobacco gi|1171579|emb|CAA64635.1| (X95342) cytochrome P450 [Nicotiana tabacum]		

Seq. No.	54817	Seq. ID	OJ000112_17.0426.C8
Gene No.	114935	Strand	+
Start	1192	End	5379
Name	OJ000112_17.0426.C8.o1.gs	Method	GENSCAN

Start	1240	End	2178
GI	none	Score	.74
Exons	1240..2178		

Seq. No.	54817	Seq. ID	OJ000112_17.0426.C8
Gene No.	114935	Strand	+
Start	1192	End	5379
Name	OJ000112_17.0426.C8.o2.gs	Method	GENSCAN
Start	3775	End	5379
GI	none	Score	.95
Exons	3775..3828, 4747..5379		

Seq. No.	54817	Seq. ID	OJ000112_17.0426.C8
Gene No.	114936	Strand	+
Start	18799	End	19224
Name	OJ000112_17.0426.C8.o1.gp	Method	AAT/GAP
Start	18799	End	19224
GI	67381_1.R1084	Score	780
Exons	18799..19224		
GI Descrip.	'1171579/emb|CAA64635| 1.0e-15 (X95342) cytochrome P450 [Nicotiana tabacum]'		

Seq. No.	54817	Seq. ID	OJ000112_17.0426.C8
Gene No.	114937	Strand	+
Start	22256	End	22328
Name	OJ000112_17.0426.C8.o3.gp	Method	AAT/GAP
Start	22256	End	22328
GI	LIB3477-003-P1-K1-E9	Score	116
Exons	22256..22328		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	54817	Seq. ID	OJ000112_17.0426.C8
Gene No.	114938	Strand	+
Start	31892	End	32114
Name	OJ000112_17.0426.C8.o4.np	Method	AAT/NAP
Start	31892	End	32114
GI	7430636	Score	144
Exons	31892..32114		
GI Descrip.	probable cytochrome P450, hypersensitivity-related - common tobacco gi|1171579|emb|CAA64635.1| (X95342) cytochrome P450 [Nicotiana tabacum]		

Seq. No.	54817	Seq. ID	OJ000112_17.0426.C8
Gene No.	114939	Strand	-
Start	5754	End	5907
Name	OJ000112_17.0426.C8.o3.gs	Method	GENSCAN
Start	5754	End	5907
GI	none	Score	.71
Exons	5754..5837, 5854..5907		

Seq. No.	54817	Seq. ID	OJ000112_17.0426.C8
Gene No.	114940	Strand	-
Start	7870	End	12150
Name	OJ000112_17.0426.C8.o2.np	Method	AAT/NAP
Start	7870	End	12150

GI	7444451	Score	4615
Exons	7870..12150		
GI Descrip.	probable gag/pol polyprotein - long-staminate rice retrotransposon retrofit gi|2586082|gb|AAB82754.1| (U72725) retrofit [Oryza longistaminata]		

Seq. No.	54817	Seq. ID	OJ000112_17.0426.C8
Gene No.	114941	Strand	-
Start	14625	End	14861
Name	OJ000112_17.0426.C8.o5.gs	Method	GENSCAN
Start	14625	End	14861
GI	none	Score	.98
Exons	14625..14861		

Seq. No.	54817	Seq. ID	OJ000112_17.0426.C8
Gene No.	114942	Strand	-
Start	15221	End	16315
Name	OJ000112_17.0426.C8.o6.gs	Method	GENSCAN
Start	15221	End	16315
GI	none	Score	.74
Exons	15221..15229, 15396..15777, 15855..16315		

Seq. No.	54817	Seq. ID	OJ000112_17.0426.C8
Gene No.	114943	Strand	-
Start	19002	End	32118
Name	OJ000112_17.0426.C8.o1.tc	Method	TBLASTX:Cress
Start	1201	End	32116
GI	none	Score	177
Exons	1201..1554, 1293..1475, 1561..1665, 4747..5274, 4761..5258, 12827..13354, 12840..13211, 13281..13340, 15878..15943, 15950..16237, 16011..16211, 19107..19673, 19117..19464, 20908..21189, 20987..21169, 31975..32112, 31991..32116		

Seq. No.	54817	Seq. ID	OJ000112_17.0426.C8
Gene No.	114943	Strand	-
Start	19002	End	32118
Name	OJ000112_17.0426.C8.o2.tm	Method	TBLASTX:Maize
Start	1251	End	32118
GI	none	Score	500
Exons	1251..1496, 1252..1653, 1449..1658, 1533..1628, 1573..1653, 15861..15959, 15866..16237, 15869..15958, 15922..16011, 16008..16232, 16064..16249, 20806..21192, 20809..20889, 20825..20926, 20966..21193, 21031..21195, 31967..32110, 31975..32118, 31976..32116		

Seq. No.	54817	Seq. ID	OJ000112_17.0426.C8
Gene No.	114943	Strand	-
Start	19002	End	32118
Name	OJ000112_17.0426.C8.o1.ts	Method	TBLASTX:Soybean
Start	1272	End	32116
GI	none	Score	444
Exons	1272..1496, 1273..1674, 1536..1628, 1663..1785, 1770..1967, 1870..2013, 2008..2127, 2032..2127, 4746..5351, 4747..5367, 12725..13360, 12734..13390, 12792..13367, 15396..15500, 15396..15500, 15515..15697, 15516..15698, 15516..15704, 15732..15863, 15739..15804, 15866..16228, 15867..15968, 16008..16289, 16014..16229, 16067..16294, 19011..19652,		

19038..19352, 19069..19638, 20362..20457, 20362..20481,
20476..20688, 20503..20637, 20665..21216, 20690..20761,
20825..20926, 20966..21196, 21040..21222, 31945..32115,
31976..32116

Seq. No.	54817	Seq. ID	OJ000112_17.0426.C8
Gene No.	114943	Strand	-
Start	19002	End	32118
Name	OJ000112_17.0426.C8.o8.tw	Method	TBLASTX:Wheat
Start	1272	End	32116
GI	none	Score	182

Exons 1272..1496, 1273..1608, 15896..16225, 15899..15958,
16008..16211, 20854..21183, 20966..21106, 21131..21169,
21295..21372, 31978..32115, 31979..32116

Seq. No.	54817	Seq. ID	OJ000112_17.0426.C8
Gene No.	114943	Strand	-
Start	19002	End	32118
Name	OJ000112_17.0426.C8.o5.tm	Method	TBLASTX:Maize
Start	1660	End	20802
GI	none	Score	43

Exons 1660..1695, 1684..1791, 1708..1752, 1716..1778, 1800..1967,
1870..1968, 15555..15704, 15556..15702, 15690..15827,
15739..15822, 15816..15857, 20521..20637, 20521..20691,
20681..20767, 20683..20778, 20689..20778, 20773..20802

Seq. No.	54817	Seq. ID	OJ000112_17.0426.C8
Gene No.	114943	Strand	-
Start	19002	End	32118
Name	OJ000112_17.0426.C8.o1.tm	Method	TBLASTX:Maize
Start	1969	End	20520
GI	none	Score	181

Exons 1969..2127, 1979..2128, 1980..2129, 4746..5384, 4747..5385,
12722..13360, 12725..13390, 12804..13367, 15395..15550,
15396..15551, 15396..15554, 15400..15552, 18984..19529,
19002..19655, 19060..19638, 20361..20456, 20362..20517,
20362..20520

Seq. No.	54817	Seq. ID	OJ000112_17.0426.C8
Gene No.	114943	Strand	-
Start	19002	End	32118
Name	OJ000112_17.0426.C8.o5.tw	Method	TBLASTX:Wheat
Start	2041	End	19635
GI	none	Score	59

Exons 2041..2124, 4746..5051, 4747..5052, 13046..13354, 19326..19634,
19327..19476, 19543..19635

Seq. No.	54817	Seq. ID	OJ000112_17.0426.C8
Gene No.	114943	Strand	-
Start	19002	End	32118
Name	OJ000112_17.0426.C8.o6.tw	Method	TBLASTX:Wheat
Start	5082	End	19301
GI	none	Score	215

Exons 5082..5300, 5083..5319, 12782..13021, 12809..13021,
19062..19301, 19089..19301

Seq. No. 54817 Seq. ID OJ000112_17.0426.C8

Gene No.	114943	Strand	-
Start	19002	End	32118
Name	OJ000112_17.0426.C8.o2.ts	Method	TBLASTX:Soybean
Start	7844	End	8517
GI	none	Score	38
Exons	7844..7870, 7870..8517, 7922..8329, 8366..8515		

Seq. No.	54817	Seq. ID	OJ000112_17.0426.C8
Gene No.	114943	Strand	-
Start	19002	End	32118
Name	OJ000112_17.0426.C8.o5.tc	Method	TBLASTX:Cress
Start	7858	End	8343
GI	none	Score	58
Exons	7858..8088, 8128..8244, 8254..8343		

Seq. No.	54817	Seq. ID	OJ000112_17.0426.C8
Gene No.	114943	Strand	-
Start	19002	End	32118
Name	OJ000112_17.0426.C8.o3.tm	Method	TBLASTX:Maize
Start	7879	End	8526
GI	none	Score	45
Exons	7879..8091, 8000..8098, 8107..8526, 8180..8434		

Seq. No.	54817	Seq. ID	OJ000112_17.0426.C8
Gene No.	114943	Strand	-
Start	19002	End	32118
Name	OJ000112_17.0426.C8.o1.tw	Method	TBLASTX:Wheat
Start	8281	End	8718
GI	none	Score	55
Exons	8281..8718, 8282..8368, 8396..8656		

Seq. No.	54817	Seq. ID	OJ000112_17.0426.C8
Gene No.	114943	Strand	-
Start	19002	End	32118
Name	OJ000112_17.0426.C8.o6.tc	Method	TBLASTX:Cress
Start	8590	End	8835
GI	none	Score	189
Exons	8590..8835		

Seq. No.	54817	Seq. ID	OJ000112_17.0426.C8
Gene No.	114943	Strand	-
Start	19002	End	32118
Name	OJ000112_17.0426.C8.o4.tm	Method	TBLASTX:Maize
Start	8653	End	9090
GI	none	Score	145
Exons	8653..9090, 8780..9079		

Seq. No.	54817	Seq. ID	OJ000112_17.0426.C8
Gene No.	114943	Strand	-
Start	19002	End	32118
Name	OJ000112_17.0426.C8.o3.tw	Method	TBLASTX:Wheat
Start	8719	End	9232
GI	none	Score	74
Exons	8719..8901, 8887..9231, 8888..9082, 9134..9232		

Seq. No.	54817	Seq. ID	OJ000112_17.0426.C8
Gene No.	114943	Strand	-

Start	19002	End	32118
Name	OJ000112_17.0426.C8.o3.ts	Method	TBLASTX:Soybean
Start	8896	End	9414
GI	5509260	Score	109
Exons	8896..9414, 8909..9073, 9143..9262		
GI Descrip.	-		

Seq. No.	54817	Seq. ID	OJ000112_17.0426.C8
Gene No.	114943	Strand	-
Start	19002	End	32118
Name	OJ000112_17.0426.C8.o3.tc	Method	TBLASTX:Cress
Start	9013	End	9286
GI	none	Score	136
Exons	9013..9273, 9014..9286		

Seq. No.	54817	Seq. ID	OJ000112_17.0426.C8
Gene No.	114943	Strand	-
Start	19002	End	32118
Name	OJ000112_17.0426.C8.o10.tm	Method	TBLASTX:Maize
Start	9136	End	9369
GI	none	Score	75
Exons	9136..9369, 9143..9274		

Seq. No.	54817	Seq. ID	OJ000112_17.0426.C8
Gene No.	114943	Strand	-
Start	19002	End	32118
Name	OJ000112_17.0426.C8.o2.tc	Method	TBLASTX:Cress
Start	9940	End	10404
GI	none	Score	38
Exons	9940..10404, 9941..10060, 10115..10378		

Seq. No.	54817	Seq. ID	OJ000112_17.0426.C8
Gene No.	114943	Strand	-
Start	19002	End	32118
Name	OJ000112_17.0426.C8.o4.tw	Method	TBLASTX:Wheat
Start	9940	End	10287
GI	none	Score	277
Exons	9940..10287		

Seq. No.	54817	Seq. ID	OJ000112_17.0426.C8
Gene No.	114943	Strand	-
Start	19002	End	32118
Name	OJ000112_17.0426.C8.o4.ts	Method	TBLASTX:Soybean
Start	9958	End	10392
GI	none	Score	248
Exons	9958..10392		

Seq. No.	54817	Seq. ID	OJ000112_17.0426.C8
Gene No.	114943	Strand	-
Start	19002	End	32118
Name	OJ000112_17.0426.C8.o7.tm	Method	TBLASTX:Maize
Start	9961	End	10291
GI	none	Score	116
Exons	9961..10284, 9965..10291		

Seq. No.	54817	Seq. ID	OJ000112_17.0426.C8
Gene No.	114943	Strand	-

Start	19002	End	32118
Name	OJ000112_17.0426.C8.o5.ts	Method	TBLASTX:Soybean
Start	10399	End	10812
GI	none	Score	78
Exons	10399..10569, 10588..10701, 10708..10812		

Seq. No.	54817	Seq. ID	OJ000112_17.0426.C8
Gene No.	114943	Strand	-
Start	19002	End	32118
Name	OJ000112_17.0426.C8.o8.tm	Method	TBLASTX:Maize
Start	10880	End	11181
GI	none	Score	137
Exons	10880..11176, 10888..11181, 10906..11181		

Seq. No.	54817	Seq. ID	OJ000112_17.0426.C8
Gene No.	114943	Strand	-
Start	19002	End	32118
Name	OJ000112_17.0426.C8.o2.tw	Method	TBLASTX:Wheat
Start	10888	End	11256
GI	none	Score	202
Exons	10888..11256, 10889..11215, 10909..11235		

Seq. No.	54817	Seq. ID	OJ000112_17.0426.C8
Gene No.	114943	Strand	-
Start	19002	End	32118
Name	OJ000112_17.0426.C8.o7.tw	Method	TBLASTX:Wheat
Start	11506	End	11820
GI	none	Score	67
Exons	11506..11820, 11582..11752		

Seq. No.	54817	Seq. ID	OJ000112_17.0426.C8
Gene No.	114943	Strand	-
Start	19002	End	32118
Name	OJ000112_17.0426.C8.o4.tc	Method	TBLASTX:Cress
Start	11581	End	12090
GI	none	Score	60
Exons	11581..11970, 11980..12090		

Seq. No.	54817	Seq. ID	OJ000112_17.0426.C8
Gene No.	114943	Strand	-
Start	19002	End	32118
Name	OJ000112_17.0426.C8.o6.tm	Method	TBLASTX:Maize
Start	11635	End	12054
GI	none	Score	145
Exons	11635..11940, 11638..11934, 11696..11944, 11968..12054		

Seq. No.	54817	Seq. ID	OJ000112_17.0426.C8
Gene No.	114943	Strand	-
Start	19002	End	32118
Name	OJ000112_17.0426.C8.o7.gs	Method	GENSCAN
Start	19002	End	21273
GI	none	Score	.97
Exons	19002..19634, 20362..21273		

Seq. No.	54817	Seq. ID	OJ000112_17.0426.C8
Gene No.	114943	Strand	-
Start	19002	End	32118

Name	OJ000112_17.0426.C8.o3.np	Method	AAT/NAP
Start	19041	End	21267
GI	7430637	Score	1818
Exons	19041..19634, 20362..21267		
GI Descrip.	cytochrome P450 - common tobacco gi|1237250|emb|CAA65580.1| (X96784) cytochrome P450 [Nicotiana tabacum]		

Seq. No.	54817	Seq. ID	OJ000112_17.0426.C8
Gene No.	114943	Strand	-
Start	19002	End	32118
Name	OJ000112_17.0426.C8.o2.gp	Method	AAT/GAP
Start	19481	End	21344
GI	35473_1.R1084	Score	2165
Exons	19481..19634, 20362..21344		
GI Descrip.	'1237250/emb|CAA65580| 1.0e-128 (X96784) cytochrome P450 [Nicotiana tabacum]'		

Seq. No.	54817	Seq. ID	OJ000112_17.0426.C8
Gene No.	114943	Strand	-
Start	19002	End	32118
Name	OJ000112_17.0426.C8.o9.tm	Method	TBLASTX:Maize
Start	27624	End	28302
GI	none	Score	94
Exons	27624..27782, 27637..27828, 27655..27822, 27658..27819, 27675..27824, 27698..27778, 27708..27779, 27745..27813, 27756..27833, 27763..27834, 27763..27840, 27816..27908, 27817..27909, 27845..27961, 27845..27997, 27847..27966, 27858..27965, 27883..27957, 27889..27966, 27893..27961, 27894..27962, 27951..28178, 27960..28010, 27974..28144, 28007..28123, 28020..28127, 28026..28130, 28031..28129, 28044..28178, 28044..28142, 28054..28146, 28207..28302, 28208..28285, 28209..28277		

Seq. No.	54818	Seq. ID	OJ000112_17.0426.C9
Gene No.	114944	Strand	+
Start	2805	End	3279
Name	OJ000112_17.0426.C9.o1.gp	Method	AAT/GAP
Start	2805	End	3279
GI	38782_1.R1084	Score	804
Exons	2805..3279		
GI Descrip.	'6069643/dbj|AP000616.1|AP000616 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	54818	Seq. ID	OJ000112_17.0426.C9
Gene No.	114945	Strand	-
Start	1	End	1368
Name	OJ000112_17.0426.C9.o1.np	Method	AAT/NAP
Start	1	End	1368
GI	6907086	Score	1230
Exons	1..91, 314..554, 612..1368		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	54818	Seq. ID	OJ000112_17.0426.C9
Gene No.	114946	Strand	-
Start	2080	End	3063
Name	OJ000112_17.0426.C9.o2.np	Method	AAT/NAP
Start	2080	End	3063

GI	4680186	Score	192
Exons	2080..2484, 2989..3063		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	54819	Seq. ID	OJ000112_17.0426.C11
Gene No.	114947	Strand	+
Start	168	End	735
Name	OJ000112_17.0426.C11.o1.gs	Method	GENSCAN
Start	168	End	735
GI	none	Score	.81
Exons	168..213, 617..735		

Seq. No.	54819	Seq. ID	OJ000112_17.0426.C11
Gene No.	114948	Strand	+
Start	4082	End	4660
Name	OJ000112_17.0426.C11.o2.gs	Method	GENSCAN
Start	4082	End	4642
GI	none	Score	.41
Exons	4082..4642		

Seq. No.	54819	Seq. ID	OJ000112_17.0426.C11
Gene No.	114948	Strand	+
Start	4082	End	4660
Name	OJ000112_17.0426.C11.o1.np	Method	AAT/NAP
Start	4088	End	4660
GI	7430636	Score	604
Exons	4088..4660		
GI Descrip.	probable cytochrome P450, hypersensitivity-related - common tobacco gi|1171579|emb|CAA64635.1| (X95342) cytochrome P450 [Nicotiana tabacum]		

Seq. No.	54819	Seq. ID	OJ000112_17.0426.C11
Gene No.	114948	Strand	+
Start	4082	End	4660
Name	OJ000112_17.0426.C11.o1.tm	Method	TBLASTX:Maize
Start	4163	End	4552
GI	none	Score	44
Exons	4163..4381, 4164..4244, 4180..4533, 4189..4275, 4238..4552		

Seq. No.	54819	Seq. ID	OJ000112_17.0426.C11
Gene No.	114948	Strand	+
Start	4082	End	4660
Name	OJ000112_17.0426.C11.o1.ts	Method	TBLASTX:Soybean
Start	4169	End	4660
GI	none	Score	398
Exons	4169..4381, 4180..4533, 4238..4597, 4571..4660, 4594..4659		

Seq. No.	54819	Seq. ID	OJ000112_17.0426.C11
Gene No.	114948	Strand	+
Start	4082	End	4660
Name	OJ000112_17.0426.C11.o1.tc	Method	TBLASTX:Cress
Start	4183	End	4582
GI	none	Score	279
Exons	4183..4398, 4244..4582		

Seq. No.	54820	Seq. ID	OJ000112_17.0426.C12
Gene No.	114949	Strand	+

Start	1	End	947
Name	OJ000112_17.0426.C12.o1.np	Method	AAT/NAP
Start	1	End	941
GI	7430636	Score	898
Exons	1..213, 315..941		
GI Descrip.	probable cytochrome P450, hypersensitivity-related - common tobacco gi|1171579|emb|CAA64635.1| (X95342) cytochrome P450 [Nicotiana tabacum]		

Seq. No.	54820	Seq. ID	OJ000112_17.0426.C12
Gene No.	114949	Strand	+
Start	1	End	947
Name	OJ000112_17.0426.C12.o1.gs	Method	GENSCAN
Start	28	End	947
GI	none	Score	.74
Exons	28..213, 246..947		

Seq. No.	54820	Seq. ID	OJ000112_17.0426.C12
Gene No.	114950	Strand	+
Start	1910	End	2367
Name	OJ000112_17.0426.C12.o2.gs	Method	GENSCAN
Start	1910	End	2367
GI	none	Score	.62
Exons	1910..2071, 2090..2305, 2311..2367		

Seq. No.	54820	Seq. ID	OJ000112_17.0426.C12
Gene No.	114951	Strand	-
Start	2764	End	3019
Name	OJ000112_17.0426.C12.o1.gp	Method	AAT/GAP
Start	2764	End	3019
GI	none	Score	446
Exons	2764..3019		

Seq. No.	54820	Seq. ID	OJ000112_17.0426.C12
Gene No.	114952	Strand	-
Start	2983	End	6597
Name	OJ000112_17.0426.C12.o2.ts	Method	TBLASTX:Soybean
Start	1	End	934
GI	none	Score	119
Exons	1..84, 1..90, 163..213, 311..934, 312..878		

Seq. No.	54820	Seq. ID	OJ000112_17.0426.C12
Gene No.	114952	Strand	-
Start	2983	End	6597
Name	OJ000112_17.0426.C12.o1.tm	Method	TBLASTX:Maize
Start	55	End	947
GI	none	Score	104
Exons	55..213, 58..213, 306..875, 311..865, 312..947		

Seq. No.	54820	Seq. ID	OJ000112_17.0426.C12
Gene No.	114952	Strand	-
Start	2983	End	6597
Name	OJ000112_17.0426.C12.o2.tc	Method	TBLASTX:Cress
Start	297	End	833
GI	none	Score	524
Exons	297..833, 329..406, 458..832		

Seq. No.	54820	Seq. ID	OJ000112_17.0426.C12
Gene No.	114952	Strand	-
Start	2983	End	6597
Name	OJ000112_17.0426.C12.o2.tw	Method	TBLASTX:Wheat
Start	315	End	614
GI	none	Score	260
Exons	315..614, 327..542, 329..613		

Seq. No.	54820	Seq. ID	OJ000112_17.0426.C12
Gene No.	114952	Strand	-
Start	2983	End	6597
Name	OJ000112_17.0426.C12.o3.tw	Method	TBLASTX:Wheat
Start	641	End	887
GI	none	Score	245
Exons	641..868, 648..875, 648..887		

Seq. No.	54820	Seq. ID	OJ000112_17.0426.C12
Gene No.	114952	Strand	-
Start	2983	End	6597
Name	OJ000112_17.0426.C12.o2.np	Method	AAT/NAP
Start	2983	End	5745
GI	4006827	Score	2027
Exons	2983..3659, 4120..5745		
GI Descrip.	(AC005970) putative serine protease [Arabidopsis thaliana]		

Seq. No.	54820	Seq. ID	OJ000112_17.0426.C12
Gene No.	114952	Strand	-
Start	2983	End	6597
Name	OJ000112_17.0426.C12.o3.gs	Method	GENSCAN
Start	2983	End	6597
GI	none	Score	.89
Exons	2983..3659, 4120..5724, 5836..6023, 6215..6597		

Seq. No.	54820	Seq. ID	OJ000112_17.0426.C12
Gene No.	114952	Strand	-
Start	2983	End	6597
Name	OJ000112_17.0426.C12.o1.ts	Method	TBLASTX:Soybean
Start	2989	End	5518
GI	none	Score	198
Exons	2989..3126, 3295..3666, 3398..3661, 3562..3666, 4100..4870, 4101..4574, 4671..5009, 4928..5053, 5204..5242, 5249..5365, 5250..5360, 5396..5518, 5403..5474		

Seq. No.	54820	Seq. ID	OJ000112_17.0426.C12
Gene No.	114952	Strand	-
Start	2983	End	6597
Name	OJ000112_17.0426.C12.o1.tc	Method	TBLASTX:Cress
Start	2992	End	5518
GI	none	Score	180
Exons	2992..3240, 3295..3666, 3371..3661, 4100..4642, 4101..4316, 4374..4583, 4622..4870, 4671..5021, 4928..5143, 5204..5242, 5252..5368, 5253..5387, 5381..5518		

Seq. No.	54820	Seq. ID	OJ000112_17.0426.C12
Gene No.	114952	Strand	-
Start	2983	End	6597
Name	OJ000112_17.0426.C12.o2.tm	Method	TBLASTX:Maize

Start	2992	End	4972
GI	none	Score	248
Exons	2992..3108, 3095..3223, 3281..3661, 3295..3666, 4100..4642, 4101..4577, 4658..4744, 4671..4745, 4739..4972, 4740..4967		

Seq. No.	54820	Seq. ID	OJ000112_17.0426.C12
Gene No.	114952	Strand	-
Start	2983	End	6597
Name	OJ000112_17.0426.C12.o2.gp	Method	AAT/GAP
Start	4178	End	4503
GI	LIB3432-006-P1-K1-F9	Score	564
Exons	4178..4503		
GI Descrip.	'4006827/gb|AAC95169.1| 2.0e-34 (AC005970) subtilisin-like protease [Arabidopsis thaliana]'		

Seq. No.	54820	Seq. ID	OJ000112_17.0426.C12
Gene No.	114952	Strand	-
Start	2983	End	6597
Name	OJ000112_17.0426.C12.o1.tw	Method	TBLASTX:Wheat
Start	4499	End	5052
GI	none	Score	157
Exons	4499..4612, 4622..4867, 4623..4910, 4910..4978, 4928..4975, 4976..5044, 4978..5052, 4980..5021		

Seq. No.	54820	Seq. ID	OJ000112_17.0426.C12
Gene No.	114952	Strand	-
Start	2983	End	6597
Name	OJ000112_17.0426.C12.o4.tm	Method	TBLASTX:Maize
Start	5005	End	5333
GI	none	Score	38
Exons	5005..5034, 5006..5053, 5095..5121, 5177..5332, 5184..5285, 5204..5332, 5205..5333		

Seq. No.	54820	Seq. ID	OJ000112_17.0426.C12
Gene No.	114952	Strand	-
Start	2983	End	6597
Name	OJ000112_17.0426.C12.o4.tw	Method	TBLASTX:Wheat
Start	5088	End	5275
GI	none	Score	56
Exons	5088..5273, 5089..5121, 5115..5153, 5120..5275, 5132..5254, 5205..5273, 5242..5274		

Seq. No.	54820	Seq. ID	OJ000112_17.0426.C12
Gene No.	114952	Strand	-
Start	2983	End	6597
Name	OJ000112_17.0426.C12.o3.tm	Method	TBLASTX:Maize
Start	5333	End	5693
GI	none	Score	188
Exons	5333..5680, 5334..5492, 5592..5693		

Seq. No.	54821	Seq. ID	OJ000112_17.0426.C13
Gene No.	114953	Strand	+
Start	2710	End	3006
Name	OJ000112_17.0426.C13.o1.gs	Method	GENSCAN
Start	2710	End	3006
GI	none	Score	.93
Exons	2710..3006		

Seq. No.	54821	Seq. ID	OJ000112_17.0426.C13
Gene No.	114954	Strand	+
Start	10041	End	10477
Name	OJ000112_17.0426.C13.o2.np	Method	AAT/NAP
Start	10041	End	10477
GI	6539570	Score	163
Exons	10041..10235, 10409..10477		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	54821	Seq. ID	OJ000112_17.0426.C13
Gene No.	114955	Strand	+
Start	14620	End	17147
Name	OJ000112_17.0426.C13.o3.gp	Method	AAT/GAP
Start	14517	End	17143
GI	26579_1.R1084	Score	1101
Exons	14517..14757, 14891..14977, 15778..15909, 16283..16355, 16966..16988, 17078..17143		
GI Descrip.	'4519507/dbj|BAA75633.1| 1.0e-131 (D88434) protein abundantly expressed during apple fruit development [Malus domestica]'		

Seq. No.	54821	Seq. ID	OJ000112_17.0426.C13
Gene No.	114955	Strand	+
Start	14620	End	17147
Name	OJ000112_17.0426.C13.o3.gs	Method	GENSCAN
Start	14620	End	16988
GI	none	Score	.78
Exons	14620..14761, 14793..14830, 14891..14977, 16283..16355, 16966..16988		

Seq. No.	54821	Seq. ID	OJ000112_17.0426.C13
Gene No.	114955	Strand	+
Start	14620	End	17147
Name	OJ000112_17.0426.C13.o3.np	Method	AAT/NAP
Start	14623	End	17147
GI	4519507	Score	528
Exons	14623..14757, 14891..14977, 15778..15909, 16283..16355, 16966..16988, 17078..17147		
GI Descrip.	(D88434) protein abundantly expressed during apple fruit development [Malus domestica]		

Seq. No.	54821	Seq. ID	OJ000112_17.0426.C13
Gene No.	114956	Strand	-
Start	5302	End	5882
Name	OJ000112_17.0426.C13.o1.np	Method	AAT/NAP
Start	5302	End	5855
GI	7484878	Score	183
Exons	5302..5560, 5639..5855		
GI Descrip.	copper transport protein homolog T6H20.70 - Arabidopsis thaliana gi|5541669|emb|CAB51175.1| (AL096859) copper transporter protein homolog [Arabidopsis thaliana]		

Seq. No.	54821	Seq. ID	OJ000112_17.0426.C13
Gene No.	114956	Strand	-
Start	5302	End	5882
Name	OJ000112_17.0426.C13.o1.gp	Method	AAT/GAP
Start	5585	End	5882

GI	none	Score	565
Exons	5585..5882		
Seq. No.	54821	Seq. ID	OJ000112_17.0426.C13
Gene No.	114957	Strand	-
Start	9425	End	9755
Name	OJ000112_17.0426.C13.o1.tc	Method	TBLASTX:Cress
Start	5321	End	5771
GI	none	Score	68
Exons	5321..5377, 5432..5521, 5609..5770, 5700..5771		
Seq. No.	54821	Seq. ID	OJ000112_17.0426.C13
Gene No.	114957	Strand	-
Start	9425	End	9755
Name	OJ000112_17.0426.C13.o1.ts	Method	TBLASTX:Soybean
Start	5321	End	5771
GI	none	Score	79
Exons	5321..5371, 5432..5509, 5595..5771, 5609..5770		
Seq. No.	54821	Seq. ID	OJ000112_17.0426.C13
Gene No.	114957	Strand	-
Start	9425	End	9755
Name	OJ000112_17.0426.C13.o1.tm	Method	TBLASTX:Maize
Start	5408	End	5761
GI	none	Score	107
Exons	5408..5479, 5413..5490, 5432..5524, 5433..5585, 5523..5597, 5604..5759, 5609..5761		
Seq. No.	54821	Seq. ID	OJ000112_17.0426.C13
Gene No.	114957	Strand	-
Start	9425	End	9755
Name	OJ000112_17.0426.C13.o2.tw	Method	TBLASTX:Wheat
Start	5441	End	5734
GI	none	Score	87
Exons	5441..5524, 5442..5525, 5502..5582, 5568..5732, 5609..5734		
Seq. No.	54821	Seq. ID	OJ000112_17.0426.C13
Gene No.	114957	Strand	-
Start	9425	End	9755
Name	OJ000112_17.0426.C13.o2.gp	Method	AAT/GAP
Start	9425	End	9755
GI	2442779	Score	560
Exons	9425..9755		
Seq. No.	54821	Seq. ID	OJ000112_17.0426.C13
Gene No.	114958	Strand	
Start	14410	End	17143
Name	OJ000112_17.0426.C13.o2.tm	Method	TBLASTX:Maize
Start	14410	End	14983
GI	none	Score	47
Exons	14410..14529, 14616..14753, 14617..14757, 14888..14980, 14927..14983		
Seq. No.	54821	Seq. ID	OJ000112_17.0426.C13
Gene No.	114958	Strand	
Start	14410	End	17143
Name	OJ000112_17.0426.C13.o1.tw	Method	TBLASTX:Wheat

Start	14616	End	14947
GI	none	Score	235
Exons	14616..14753, 14617..14757, 14888..14947		

Seq. No.	54821	Seq. ID	OJ000112_17.0426.C13
Gene No.	114958	Strand	
Start	14410	End	17143
Name	OJ000112_17.0426.C13.o2.ts	Method	TBLASTX:Soybean
Start	14647	End	17143
GI	none	Score	101
Exons	14647..14760, 14927..14980, 15769..15909, 15777..15917, 15780..15917, 16282..16356, 16283..16384, 17077..17142, 17078..17143		

Seq. No.	54821	Seq. ID	OJ000112_17.0426.C13
Gene No.	114958	Strand	
Start	14410	End	17143
Name	OJ000112_17.0426.C13.o3.tm	Method	TBLASTX:Maize
Start	15769	End	17143
GI	none	Score	223
Exons	15769..15909, 15776..15910, 15777..15911, 15778..15912, 16269..16355, 16280..16357, 16281..16355, 16283..16357, 16968..16991, 16971..16991, 17077..17142, 17078..17143		

Seq. No.	54822	Seq. ID	OJ000112_16.0426.C1
Gene No.	114959	Strand	-
Start	604	End	4172
Name	OJ000112_16.0426.C1.o1.np	Method	AAT/NAP
Start	604	End	4160
GI	7363286	Score	907
Exons	604..625, 2033..3704, 3979..4160		
GI Descrip.	(AP001552) Similar to Arabidopsis thaliana DNA chromosome 4, BAC clone F4I10; vegetative storage protein. (AL035525) [Oryza sativa]		

Seq. No.	54822	Seq. ID	OJ000112_16.0426.C1
Gene No.	114959	Strand	-
Start	604	End	4172
Name	OJ000112_16.0426.C1.o1.gs	Method	GENSCAN
Start	2055	End	4172
GI	none	Score	.65
Exons	2055..2552, 3510..4172		

Seq. No.	54822	Seq. ID	OJ000112_16.0426.C1
Gene No.	114960	Strand	-
Start	5038	End	6856
Name	OJ000112_16.0426.C1.o1.ts	Method	TBLASTX:Soybean
Start	2064	End	2489
GI	none	Score	313
Exons	2064..2489		

Seq. No.	54822	Seq. ID	OJ000112_16.0426.C1
Gene No.	114960	Strand	-
Start	5038	End	6856
Name	OJ000112_16.0426.C1.o1.tm	Method	TBLASTX:Maize
Start	2070	End	4001
GI	none	Score	81

Exons	2070..2801, 2071..2391, 2428..2796, 2520..2885, 2703..3104, 2781..3104, 2835..3194, 3024..3380, 3070..3366, 3072..3377, 3105..3491, 3286..3348, 3306..3578, 3435..3641, 3471..3578, 3642..3893, 3642..3749, 3723..3893, 3723..3893, 3727..3894, 3954..4001		
Seq. No.	54822	Seq. ID	OJ000112_16.0426.C1
Gene No.	114960	Strand	-
Start	5038	End	6856
Name	OJ000112_16.0426.C1.o2.tc	Method	TBLASTX:Cress
Start	2322	End	3893
GI	none	Score	94
Exons	2322..2729, 2757..2891, 2766..3212, 3024..3506, 3336..3587, 3726..3893, 3747..3809		
Seq. No.	54822	Seq. ID	OJ000112_16.0426.C1
Gene No.	114960	Strand	-
Start	5038	End	6856
Name	OJ000112_16.0426.C1.o2.tw	Method	TBLASTX:Wheat
Start	2367	End	3893
GI	none	Score	88
Exons	2367..2816, 2727..3140, 3030..3434, 3363..3593, 3436..3579, 3489..3674, 3642..3704, 3738..3893, 3754..3879		
Seq. No.	54822	Seq. ID	OJ000112_16.0426.C1
Gene No.	114960	Strand	-
Start	5038	End	6856
Name	OJ000112_16.0426.C1.o3.ts	Method	TBLASTX:Soybean
Start	2757	End	3876
GI	none	Score	99
Exons	2757..2951, 2871..3254, 2896..3252, 3174..3557, 3477..3578, 3478..3552, 3649..3756, 3729..3869, 3735..3875, 3739..3876		
Seq. No.	54822	Seq. ID	OJ000112_16.0426.C1
Gene No.	114960	Strand	-
Start	5038	End	6856
Name	OJ000112_16.0426.C1.o2.ts	Method	TBLASTX:Soybean
Start	5035	End	6718
GI	none	Score	81
Exons	5035..5226, 5072..5218, 5254..5457, 6111..6287, 6136..6252, 6381..6467, 6503..6718		
Seq. No.	54822	Seq. ID	OJ000112_16.0426.C1
Gene No.	114960	Strand	-
Start	5038	End	6856
Name	OJ000112_16.0426.C1.o2.gs	Method	GENSCAN
Start	5038	End	6757
GI	none	Score	.99
Exons	5038..5457, 6036..6465, 6525..6757		
Seq. No.	54822	Seq. ID	OJ000112_16.0426.C1
Gene No.	114960	Strand	-
Start	5038	End	6856
Name	OJ000112_16.0426.C1.o2.np	Method	AAT/NAP
Start	5041	End	6856
GI	7430708	Score	647
Exons	5041..5457, 6036..6465, 6525..6856		

GI Descrip. cytochrome P450 homolog F14M4.22 - Arabidopsis thaliana gi|3522946|gb|AAC34228.1| (AC004411) putative cytochrome P450 [Arabidopsis thaliana]

Seq. No.	54822	Seq. ID	OJ000112_16.0426.C1
Gene No.	114960	Strand	-
Start	5038	End	6856
Name	OJ000112_16.0426.C1.o3.tm	Method	TBLASTX:Maize
Start	5044	End	5235
GI	none	Score	126
Exons	5044..5235, 5063..5233		

Seq. No.	54822	Seq. ID	OJ000112_16.0426.C1
Gene No.	114960	Strand	-
Start	5038	End	6856
Name	OJ000112_16.0426.C1.o1.tc	Method	TBLASTX:Cress
Start	5068	End	5445
GI	none	Score	95
Exons	5068..5235, 5069..5224, 5254..5445, 5255..5440		

Seq. No.	54822	Seq. ID	OJ000112_16.0426.C1
Gene No.	114960	Strand	-
Start	5038	End	6856
Name	OJ000112_16.0426.C1.o1.gp	Method	AAT/GAP
Start	5258	End	6284
GI	uC-osf1M202094e11b1	Score	848
Exons	5258..5457, 6036..6284		
GI Descrip.	'3522946/gb|AAC34228.1| 6.0e-23 (AC004411) putative cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	54822	Seq. ID	OJ000112_16.0426.C1
Gene No.	114960	Strand	-
Start	5038	End	6856
Name	OJ000112_16.0426.C1.o2.tm	Method	TBLASTX:Maize
Start	5296	End	6706
GI	none	Score	156
Exons	5296..5412, 5362..5457, 6027..6074, 6105..6302, 6127..6264, 6130..6324, 6294..6323, 6378..6464, 6381..6467, 6400..6486, 6403..6468, 6510..6695, 6512..6691, 6530..6706		

Seq. No.	54822	Seq. ID	OJ000112_16.0426.C1
Gene No.	114960	Strand	-
Start	5038	End	6856
Name	OJ000112_16.0426.C1.o1.tw	Method	TBLASTX:Wheat
Start	5398	End	6323
GI	none	Score	175
Exons	5398..5457, 6027..6074, 6108..6260, 6130..6261, 6284..6322, 6294..6323		

Seq. No.	54822	Seq. ID	OJ000112_16.0426.C1
Gene No.	114960	Strand	-
Start	5038	End	6856
Name	OJ000112_16.0426.C1.o3.tw	Method	TBLASTX:Wheat
Start	6403	End	6775
GI	none	Score	70
Exons	6403..6468, 6408..6467, 6497..6700, 6510..6701, 6698..6775, 6752..6775		

Seq. No.	54823	Seq. ID	OJ000112_16.0426.C2
Gene No.	114961	Strand	+
Start	49	End	588
Name	OJ000112_16.0426.C2.o1.gs	Method	GENSCAN
Start	49	End	588
GI	none	Score	.95
Exons	49..588		

Seq. No.	54823	Seq. ID	OJ000112_16.0426.C2
Gene No.	114962	Strand	+
Start	3928	End	4027
Name	OJ000112_16.0426.C2.o1.gp	Method	AAT/GAP
Start	3928	End	4027
GI	LIB3431-004-P1-K1-G12	Score	116
Exons	3928..4027		
GI Descrip.	'4680203/gb|AAD27566.1|AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]'		

Seq. No.	54823	Seq. ID	OJ000112_16.0426.C2
Gene No.	114963	Strand	+
Start	10148	End	10581
Name	OJ000112_16.0426.C2.o2.gp	Method	AAT/GAP
Start	10148	End	10581
GI	54617_1.R1084	Score	776
Exons	10148..10581		
GI Descrip.	'4469022/emb|CAB38283| 2.0e-13 (AL035602) cytochrome P450-like protein [Arabidopsis thaliana]'		

Seq. No.	54823	Seq. ID	OJ000112_16.0426.C2
Gene No.	114964	Strand	+
Start	21805	End	22433
Name	OJ000112_16.0426.C2.o6.gs	Method	GENSCAN
Start	21805	End	22364
GI	none	Score	.65
Exons	21805..21898, 22168..22364		

Seq. No.	54823	Seq. ID	OJ000112_16.0426.C2
Gene No.	114964	Strand	+
Start	21805	End	22433
Name	OJ000112_16.0426.C2.o3.np	Method	AAT/NAP
Start	22114	End	22433
GI	6539588	Score	160
Exons	22114..22433		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	54823	Seq. ID	OJ000112_16.0426.C2
Gene No.	114965	Strand	-
Start	10323	End	14429
Name	OJ000112_16.0426.C2.o3.gs	Method	GENSCAN
Start	10323	End	12022
GI	none	Score	.97
Exons	10323..11599, 11746..12022		

Seq. No.	54823	Seq. ID	OJ000112_16.0426.C2
Gene No.	114965	Strand	-
Start	10323	End	14429

Name	OJ000112_16.0426.C2.o1.np	Method	AAT/NAP
Start	10329	End	14429
GI	7484900	Score	1169
Exons	10329..11599, 11746..11944, 14339..14429		
GI Descrip.	cytochrome P450 homolog T29A15.200 - Arabidopsis thaliana gi|4469022|emb|CAB38283.1| (AL035602) cytochrome P450-like protein [Arabidopsis thaliana] gi|7269625|emb|CAB81421.1| (AL161571) cytochrome P450-like protein [Arabidopsis thaliana]		

Seq. No.	54823	Seq. ID	OJ000112_16.0426.C2
Gene No.	114965	Strand	-
Start	10323	End	14429
Name	OJ000112_16.0426.C2.o3.gp	Method	AAT/GAP
Start	10593	End	11063
GI	19210_1.R1084	Score	848
Exons	10593..11063		
GI Descrip.	'3522946/gb|AAC34228.1| 2.0e-31 (AC004411) putative cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	54823	Seq. ID	OJ000112_16.0426.C2
Gene No.	114965	Strand	-
Start	10323	End	14429
Name	OJ000112_16.0426.C2.o4.gp	Method	AAT/GAP
Start	11134	End	11619
GI	uC-osroM202007c11b1	Score	903
Exons	11134..11619		
GI Descrip.	'3522945/gb|AAC34227.1| 9.0e-25 (AC004411) putative cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	54823	Seq. ID	OJ000112_16.0426.C2
Gene No.	114965	Strand	-
Start	10323	End	14429
Name	OJ000112_16.0426.C2.o4.gs	Method	GENSCAN
Start	12285	End	13628
GI	none	Score	.91
Exons	12285..12412, 12888..12917, 13577..13628		

Seq. No.	54823	Seq. ID	OJ000112_16.0426.C2
Gene No.	114966	Strand	-
Start	20633	End	22140
Name	OJ000112_16.0426.C2.o2.np	Method	AAT/NAP
Start	20633	End	22140
GI	439278	Score	283
Exons	20633..21003, 22033..22140		
GI Descrip.	(X69205) ribosomal protein [Triticum aestivum]		

Seq. No.	54823	Seq. ID	OJ000112_16.0426.C2
Gene No.	114967	Strand	-
Start	22527	End	27882
Name	OJ000112_16.0426.C2.o4.np	Method	AAT/NAP
Start	22527	End	25080
GI	7430708	Score	196
Exons	22527..22759, 25032..25080		
GI Descrip.	cytochrome P450 homolog F14M4.22 - Arabidopsis thaliana gi|3522946|gb|AAC34228.1| (AC004411) putative cytochrome P450 [Arabidopsis thaliana]		

Seq. No.	54823	Seq. ID	OJ000112_16.0426.C2
Gene No.	114967	Strand	-
Start	22527	End	27882
Name	OJ000112_16.0426.C2.o7.gs	Method	GENSCAN
Start	23183	End	27531
GI	none	Score	.87
Exons	23183..23389, 25101..25205, 25867..27134, 27255..27531		

Seq. No.	54823	Seq. ID	OJ000112_16.0426.C2
Gene No.	114967	Strand	-
Start	22527	End	27882
Name	OJ000112_16.0426.C2.o5.np	Method	AAT/NAP
Start	25867	End	27882
GI	7484900	Score	1148
Exons	25867..27134, 27255..27453, 27799..27882		
GI Descrip.	cytochrome P450 homolog T29A15.200 - Arabidopsis thaliana gi|4469022|emb|CAB38283.1| (AL035602) cytochrome P450-like protein [Arabidopsis thaliana] gi|7269625|emb|CAB81421.1| (AL161571) cytochrome P450-like protein [Arabidopsis thaliana]		

Seq. No.	54823	Seq. ID	OJ000112_16.0426.C2
Gene No.	114967	Strand	-
Start	22527	End	27882
Name	OJ000112_16.0426.C2.o5.gp	Method	AAT/GAP
Start	25932	End	26429
GI	17052_1.R1084	Score	963
Exons	25932..26429		
GI Descrip.	'4469022/emb|CAB38283| 2.0e-44 (AL035602) cytochrome P450-like protein [Arabidopsis thaliana]'		

Seq. No.	54823	Seq. ID	OJ000112_16.0426.C2
Gene No.	114968	Strand	-
Start	29541	End	31462
Name	OJ000112_16.0426.C2.o1.tw	Method	TBLASTX:Wheat
Start	13	End	27011
GI	none	Score	62
Exons	13..69, 13..72, 11066..11293, 11067..11306, 11095..11247, 11187..11294, 11295..11474, 11299..11475, 11316..11357, 11326..11478, 18123..18362, 18125..18364, 18275..18364, 18359..18532, 18374..18526, 18384..18533, 18393..18533, 18397..18534, 18469..18537, 26602..26835, 26602..26841, 26630..26839, 26836..27009, 26851..27000, 26870..27010, 26880..27011		

Seq. No.	54823	Seq. ID	OJ000112_16.0426.C2
Gene No.	114968	Strand	-
Start	29541	End	31462
Name	OJ000112_16.0426.C2.o2.tc	Method	TBLASTX:Cress
Start	13	End	27453
GI	none	Score	61
Exons	13..60, 61..201, 385..492, 11175..11294, 11179..11235, 11316..11459, 11326..11424, 11460..11600, 11762..11944, 18233..18343, 18237..18353, 18374..18517, 18384..18482, 18518..18661, 18575..18655, 18769..18951, 26710..26820, 26714..26770, 26851..26994, 26861..26959, 26995..27135, 27253..27453		

Seq. No.	54823	Seq. ID	OJ000112_16.0426.C2
Gene No.	114968	Strand	-
Start	29541	End	31462
Name	OJ000112_16.0426.C2.o1.tm	Method	TBLASTX:Maize
Start	97	End	27135
GI	none	Score	178
Exons	97..201, 10332..10787, 10354..10788, 10812..10949, 10813..10947, 11040..11483, 11098..11247, 11496..11600, 17375..17854, 17415..17858, 17868..18005, 17870..18007, 18056..18103, 18098..18532, 18156..18386, 18554..18694, 22533..22754, 22558..22755, 22626..22757, 25855..26334, 25891..26157, 25895..26335, 26327..26485, 26335..26487, 26575..27018, 26633..26782, 27031..27135		

Seq. No.	54823	Seq. ID	OJ000112_16.0426.C2
Gene No.	114968	Strand	-
Start	29541	End	31462
Name	OJ000112_16.0426.C2.o1.ts	Method	TBLASTX:Soybean
Start	388	End	27444
GI	none	Score	83
Exons	388..534, 10332..10949, 10354..10503, 10534..10938, 11040..11471, 11735..11935, 17390..18007, 17415..17561, 17592..17966, 18098..18547, 18739..18939, 22533..22754, 22558..22704, 25870..26487, 25895..26041, 26072..26212, 26249..26446, 26575..27003, 27238..27444		

Seq. No.	54823	Seq. ID	OJ000112_16.0426.C2
Gene No.	114968	Strand	-
Start	29541	End	31462
Name	OJ000112_16.0426.C2.o1.tc	Method	TBLASTX:Cress
Start	10353	End	26299
GI	none	Score	221
Exons	10353..10748, 10357..10761, 17411..17806, 17412..17819, 22554..22757, 22555..22758, 25891..26274, 25892..26299		

Seq. No.	54823	Seq. ID	OJ000112_16.0426.C2
Gene No.	114968	Strand	-
Start	29541	End	31462
Name	OJ000112_16.0426.C2.o2.tw	Method	TBLASTX:Wheat
Start	10694	End	26581
GI	none	Score	90
Exons	10694..10792, 10695..10793, 10702..10803, 10803..10967, 10804..10968, 10959..11045, 10960..11022, 17753..17851, 17753..17851, 17763..17861, 17862..18026, 17870..18028, 17870..18025, 18018..18104, 18023..18103, 26232..26324, 26234..26326, 26240..26344, 26335..26580, 26336..26581		

Seq. No.	54823	Seq. ID	OJ000112_16.0426.C2
Gene No.	114968	Strand	-
Start	29541	End	31462
Name	OJ000112_16.0426.C2.o3.tc	Method	TBLASTX:Cress
Start	10800	End	26697
GI	none	Score	144
Exons	10800..10979, 10801..10947, 11031..11162, 17849..18010, 17859..18005, 17870..18016, 18041..18088, 18089..18220, 26329..26520, 26330..26485, 26524..26562, 26566..26697		

Seq. No.	54823	Seq. ID	OJ000112_16.0426.C2
Gene No.	114968	Strand	-
Start	29541	End	31462
Name	OJ000112_16.0426.C2.o2.tm	Method	TBLASTX:Maize
Start	20709	End	30198
GI	none	Score	86
Exons	20709..20801, 20715..20813, 20782..20985, 20807..20932, 20808..20939, 29962..30027, 29964..30035, 29985..30035, 30033..30137, 30060..30122, 30062..30133, 30127..30198, 30129..30185		

Seq. No.	54823	Seq. ID	OJ000112_16.0426.C2
Gene No.	114968	Strand	-
Start	29541	End	31462
Name	OJ000112_16.0426.C2.o8.gs	Method	GENSCAN
Start	29541	End	31426
GI	none	Score	.44
Exons	29541..29646, 30980..31080, 31121..31153, 31394..31426		

Seq. No.	54823	Seq. ID	OJ000112_16.0426.C2
Gene No.	114968	Strand	-
Start	29541	End	31462
Name	OJ000112_16.0426.C2.o6.np	Method	AAT/NAP
Start	29884	End	30183
GI	439278	Score	226
Exons	29884..30183		
GI Descrip.	(X69205) ribosomal protein [Triticum aestivum]		

Seq. No.	54823	Seq. ID	OJ000112_16.0426.C2
Gene No.	114968	Strand	-
Start	29541	End	31462
Name	OJ000112_16.0426.C2.o6.gp	Method	AAT/GAP
Start	31127	End	31462
GI	none	Score	641
Exons	31127..31462		

Seq. No.	54824	Seq. ID	OJ000112_16.0426.C3
Gene No.	114969	Strand	-
Start	5096	End	9491
Name	OJ000112_16.0426.C3.o1.gp	Method	AAT/GAP
Start	5096	End	6404
GI	none	Score	1494
Exons	5096..5826, 6334..6404		

Seq. No.	54824	Seq. ID	OJ000112_16.0426.C3
Gene No.	114969	Strand	-
Start	5096	End	9491
Name	OJ000112_16.0426.C3.o2.gs	Method	GENSCAN
Start	5689	End	9491
GI	none	Score	.87
Exons	5689..6454, 7007..7262, 9320..9491		

Seq. No.	54824	Seq. ID	OJ000112_16.0426.C3
Gene No.	114969	Strand	-
Start	5096	End	9491
Name	OJ000112_16.0426.C3.o1.np	Method	AAT/NAP
Start	5899	End	7139

GI	7438352	Score	485
Exons	5899..5977, 6257..6454, 6602..6756, 6996..7139		
GI Descrip.	transcription factor MYB4 homolog T15B16.7 - Arabidopsis thaliana gi|3859598|gb|AAC72864.1| (AF104919) contains similarity to Myb DNA-binding domains (Pfam: PF00249, E=3.7e-27 N=3) [Arabidopsis thaliana] gi|5823333|gb|AAD53105.1|AF176000_1 (AF176000) putative transcription factor [Arabidopsis thaliana]		

Seq. No.	54824	Seq. ID	OJ000112_16.0426.C3
Gene No.	114970	Strand	-
Start	11507	End	15198
Name	OJ000112_16.0426.C3.o1.tc	Method	TBLASTX:Cress
Start	6331	End	7091
GI	none	Score	96
Exons	6331..6480, 6344..6484, 6601..6729, 6601..6732, 6662..6733, 7002..7091		

Seq. No.	54824	Seq. ID	OJ000112_16.0426.C3
Gene No.	114970	Strand	-
Start	11507	End	15198
Name	OJ000112_16.0426.C3.o1.tm	Method	TBLASTX:Maize
Start	6331	End	7091
GI	none	Score	93
Exons	6331..6480, 6335..6484, 6596..6733, 6601..6738, 6604..6732, 7002..7091		

Seq. No.	54824	Seq. ID	OJ000112_16.0426.C3
Gene No.	114970	Strand	-
Start	11507	End	15198
Name	OJ000112_16.0426.C3.o1.ts	Method	TBLASTX:Soybean
Start	6331	End	7091
GI	none	Score	107
Exons	6331..6480, 6335..6472, 6596..6733, 6601..6732, 6601..6738, 7002..7091		

Seq. No.	54824	Seq. ID	OJ000112_16.0426.C3
Gene No.	114970	Strand	-
Start	11507	End	15198
Name	OJ000112_16.0426.C3.o1.tw	Method	TBLASTX:Wheat
Start	6340	End	7091
GI	none	Score	103
Exons	6340..6480, 6344..6460, 6596..6715, 6601..6714, 6601..6738, 7002..7091		

Seq. No.	54824	Seq. ID	OJ000112_16.0426.C3
Gene No.	114970	Strand	-
Start	11507	End	15198
Name	OJ000112_16.0426.C3.o3.gs	Method	GENSCAN
Start	11507	End	15198
GI	none	Score	.66
Exons	11507..11591, 11662..11938, 11964..12185, 14839..14963, 15139..15198		

Seq. No.	54825	Seq. ID	OJ000112_16.0426.C4
Gene No.	114971	Strand	-
Start	2181	End	7225
Name	OJ000112_16.0426.C4.o2.gs	Method	GENSCAN

Start	2181	End	7225
GI	none	Score	.85
Exons	2181..2276, 3578..3723, 3811..3916, 4018..4080, 4409..4469, 4601..4725, 4818..4904, 5259..5332, 5431..5560, 5694..5776, 6403..6659, 7065..7225		

Seq. No.	54825	Seq. ID	OJ000112_16.0426.C4
Gene No.	114971	Strand	-
Start	2181	End	7225
Name	OJ000112_16.0426.C4.o1.tm	Method	TBLASTX:Maize
Start	3317	End	6519
GI	none	Score	107
Exons	3317..3445, 3318..3449, 3319..3453, 3575..3721, 3578..3730, 3579..3725, 3580..3726, 3802..3918, 3809..3925, 3810..3917, 3811..3918, 4015..4095, 4016..4096, 4181..4237, 4182..4238, 4183..4248, 4397..4477, 4404..4481, 4407..4478, 4573..4728, 4580..4726, 4809..4904, 4818..4901, 4822..4935, 5253..5333, 5259..5315, 5260..5334, 5408..5572, 5431..5562, 5435..5566, 5687..5773, 5692..5775, 5694..5780, 5695..5781, 6365..6505, 6405..6464, 6406..6507, 6442..6519, 6461..6517		

Seq. No.	54825	Seq. ID	OJ000112_16.0426.C4
Gene No.	114971	Strand	-
Start	2181	End	7225
Name	OJ000112_16.0426.C4.o1.np	Method	AAT/NAP
Start	3333	End	6955
GI	6671966	Score	1071
Exons	3333..3437, 3578..3723, 3811..3916, 4018..4095, 4181..4234, 4409..4469, 4601..4725, 4818..4904, 5259..5332, 5431..5560, 5694..5776, 6406..6487, 6842..6955		
GI Descrip.	(AC013454) putative pectinacetylesterase [Arabidopsis thaliana]		

Seq. No.	54825	Seq. ID	OJ000112_16.0426.C4
Gene No.	114971	Strand	-
Start	2181	End	7225
Name	OJ000112_16.0426.C4.o2.tc	Method	TBLASTX:Cress
Start	3333	End	3902
GI	none	Score	49
Exons	3333..3380, 3334..3390, 3367..3432, 3393..3434, 3578..3730, 3594..3725, 3809..3901, 3810..3902		

Seq. No.	54825	Seq. ID	OJ000112_16.0426.C4
Gene No.	114971	Strand	-
Start	2181	End	7225
Name	OJ000112_16.0426.C4.o2.ts	Method	TBLASTX:Soybean
Start	3334	End	4736
GI	none	Score	86
Exons	3334..3435, 3336..3434, 3575..3721, 3578..3721, 3591..3722, 3812..3925, 4006..4095, 4018..4095, 4603..4731, 4603..4728, 4668..4736		

Seq. No.	54825	Seq. ID	OJ000112_16.0426.C4
Gene No.	114971	Strand	-
Start	2181	End	7225
Name	OJ000112_16.0426.C4.o1.gp	Method	AAT/GAP
Start	3363	End	5784
GI	20977_1.R1084	Score	1791

Exons	3363..3437, 3578..3723, 3811..3916, 4018..4095, 4181..4234, 4409..4469, 4601..4725, 4818..4904, 5259..5332, 5431..5560, 5694..5784		
GI Descrip.	'3522956/gb|AAC34238.1| 1.0e-122 (AC004411) putative pectinacetylesterase precursor [Arabidopsis thaliana]'		

Seq. No.	54825	Seq. ID	OJ000112_16.0426.C4
Gene No.	114971	Strand	-
Start	2181	End	7225
Name	OJ000112_16.0426.C4.o3.tc	Method	TBLASTX:Cress
Start	4603	End	4907
GI	none	Score	111
Exons	4603..4728, 4604..4726, 4809..4907, 4809..4907		

Seq. No.	54825	Seq. ID	OJ000112_16.0426.C4
Gene No.	114971	Strand	-
Start	2181	End	7225
Name	OJ000112_16.0426.C4.o1.ts	Method	TBLASTX:Soybean
Start	4806	End	5781
GI	none	Score	68
Exons	4806..4907, 4809..4901, 5253..5333, 5272..5334, 5408..5572, 5433..5567, 5688..5750, 5694..5780, 5707..5781		

Seq. No.	54825	Seq. ID	OJ000112_16.0426.C4
Gene No.	114971	Strand	-
Start	2181	End	7225
Name	OJ000112_16.0426.C4.o1.tc	Method	TBLASTX:Cress
Start	5254	End	5790
GI	none	Score	57
Exons	5254..5325, 5274..5333, 5408..5572, 5433..5561, 5537..5566, 5694..5780, 5695..5790		

Seq. No.	54825	Seq. ID	OJ000112_16.0426.C4
Gene No.	114971	Strand	-
Start	2181	End	7225
Name	OJ000112_16.0426.C4.o2.gp	Method	AAT/GAP
Start	6422	End	6780
GI	none	Score	718
Exons	6422..6780		

Seq. No.	54826	Seq. ID	OJ000112_16.0426.C5
Gene No.	114972	Strand	+
Start	304	End	1095
Name	OJ000112_16.0426.C5.o1.gs	Method	GENSCAN
Start	304	End	1095
GI	none	Score	.71
Exons	304..434, 963..1095		

Seq. No.	54827	Seq. ID	OJ000112_16.0426.C7
Gene No.	114973	Strand	-
Start	60	End	140
Name	OJ000112_16.0426.C7.o1.gs	Method	GENSCAN
Start	60	End	140
GI	none	Score	.99
Exons	60..140		

Seq. No.	54828	Seq. ID	OJ000112_11.0426.C3

Gene No.	114974	Strand	+
Start	1136	End	3143
Name	OJ000112_11.0426.C3.o1.gp	Method	AAT/GAP
Start	1136	End	3143
GI	598_3.R1084	Score	1508
Exons	1136..1406, 2439..2698, 2842..3143		
GI Descrip.	'4521193/dbj|AB013450.1|AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene'		

Seq. No.	54828	Seq. ID	OJ000112_11.0426.C3
Gene No.	114974	Strand	+
Start	1136	End	3143
Name	OJ000112_11.0426.C3.o1.gs	Method	GENSCAN
Start	1269	End	2950
GI	none	Score	.94
Exons	1269..1406, 2439..2698, 2842..2950		

Seq. No.	54828	Seq. ID	OJ000112_11.0426.C3
Gene No.	114974	Strand	+
Start	1136	End	3143
Name	OJ000112_11.0426.C3.o1.np	Method	AAT/NAP
Start	1314	End	2956
GI	6692129	Score	693
Exons	1314..1406, 2439..2698, 2842..2956		
GI Descrip.	(AC007654) T19E23.13 [Arabidopsis thaliana]		

Seq. No.	54828	Seq. ID	OJ000112_11.0426.C3
Gene No.	114975	Strand	+
Start	14159	End	17900
Name	OJ000112_11.0426.C3.o4.gp	Method	AAT/GAP
Start	14159	End	14408
GI	3761181	Score	412
Exons	14159..14408		
GI Descrip.	4521193/dbj|AB013450.1|AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene		

Seq. No.	54828	Seq. ID	OJ000112_11.0426.C3
Gene No.	114975	Strand	+
Start	14159	End	17900
Name	OJ000112_11.0426.C3.o3.np	Method	AAT/NAP
Start	14306	End	17900
GI	7106512	Score	2060
Exons	14306..14365, 14439..14557, 14818..15212, 15450..16386, 16557..17490, 17546..17900		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	54828	Seq. ID	OJ000112_11.0426.C3
Gene No.	114976	Strand	-
Start	3718	End	8854
Name	OJ000112_11.0426.C3.o2.gs	Method	GENSCAN
Start	3718	End	8730
GI	none	Score	.5
Exons	3718..4275, 4512..5660, 6493..6562, 8065..8238, 8669..8730		

Seq. No.	54828	Seq. ID	OJ000112_11.0426.C3
Gene No.	114976	Strand	-

Start	3718	End	8854
Name	OJ000112_11.0426.C3.o2.np	Method	AAT/NAP
Start	3721	End	5591
GI	7485376	Score	1115
Exons	3721..3938, 4005..4275, 4512..4796, 4824..5591		
GI Descrip.	hypothetical protein F11C18.20 - Arabidopsis thaliana gi|4584521|emb|CAB40752.1| (AL049607) putative protein [Arabidopsis thaliana] gi|7270085|emb|CAB79900.1| (AL161579) putative protein [Arabidopsis thaliana]		

Seq. No.	54828	Seq. ID	OJ000112_11.0426.C3
Gene No.	114976	Strand	-
Start	3718	End	8854
Name	OJ000112_11.0426.C3.o2.gp	Method	AAT/GAP
Start	4657	End	5032
GI	426642	Score	734
Exons	4657..5032		
GI Descrip.	3252807 1.0e-15 (AC004705) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	54828	Seq. ID	OJ000112_11.0426.C3
Gene No.	114976	Strand	-
Start	3718	End	8854
Name	OJ000112_11.0426.C3.o3.gp	Method	AAT/GAP
Start	6482	End	8854
GI	4878446	Score	458
Exons	6482..6562, 8669..8854		

Seq. No.	54828	Seq. ID	OJ000112_11.0426.C3
Gene No.	114977	Strand	-
Start	11616	End	14944
Name	OJ000112_11.0426.C3.o3.gs	Method	GENSCAN
Start	11616	End	14944
GI	none	Score	.77
Exons	11616..11899, 14378..14584, 14782..14944		

Seq. No.	54828	Seq. ID	OJ000112_11.0426.C3
Gene No.	114978	Strand	-
Start	18068	End	18377
Name	OJ000112_11.0426.C3.o1.tc	Method	TBLASTX:Cress
Start	1296	End	2944
GI	none	Score	164
Exons	1296..1406, 1298..1402, 1320..1406, 1332..1406, 2436..2708, 2436..2564, 2437..2709, 2438..2719, 2438..2557, 2580..2708, 2839..2943, 2839..2934, 2840..2944, 2840..2935		

Seq. No.	54828	Seq. ID	OJ000112_11.0426.C3
Gene No.	114978	Strand	-
Start	18068	End	18377
Name	OJ000112_11.0426.C3.o1.tw	Method	TBLASTX:Wheat
Start	1296	End	3109
GI	none	Score	157
Exons	1296..1406, 1320..1406, 1332..1406, 1369..1407, 2436..2708, 2436..2573, 2436..2699, 2438..2719, 2438..2572, 2555..2719, 2580..2708, 2839..2955, 2840..2944, 2840..2950, 2842..2958, 2851..2943, 2993..3025, 3009..3032, 3013..3036, 3022..3054, 3024..3053, 3046..3108, 3057..3107, 3059..3109, 3059..3109		

Seq. No.	54828	Seq. ID	OJ000112_11.0426.C3
Gene No.	114978	Strand	-
Start	18068	End	18377
Name	OJ000112_11.0426.C3.o2.ts	Method	TBLASTX:Soybean
Start	1304	End	2968
GI	none	Score	38
Exons	1304..1348, 1314..1406, 1320..1406, 1335..1406, 1372..1407, 2431..2694, 2436..2708, 2436..2576, 2436..2705, 2438..2719, 2438..2575, 2550..2708, 2839..2943, 2839..2943, 2840..2944, 2840..2968		

Seq. No.	54828	Seq. ID	OJ000112_11.0426.C3
Gene No.	114978	Strand	-
Start	18068	End	18377
Name	OJ000112_11.0426.C3.o2.tm	Method	TBLASTX:Maize
Start	1305	End	3102
GI	none	Score	155
Exons	1305..1406, 1320..1406, 1332..1406, 1369..1407, 2436..2708, 2436..2573, 2436..2699, 2438..2719, 2438..2572, 2573..2719, 2580..2708, 2811..2951, 2839..2955, 2840..2944, 2840..2950, 2842..2952, 2842..2943, 2959..3102, 3047..3100, 3049..3102		

Seq. No.	54828	Seq. ID	OJ000112_11.0426.C3
Gene No.	114978	Strand	-
Start	18068	End	18377
Name	OJ000112_11.0426.C3.o3.ts	Method	TBLASTX:Soybean
Start	4123	End	4949
GI	none	Score	101
Exons	4123..4272, 4512..4703, 4800..4949		

Seq. No.	54828	Seq. ID	OJ000112_11.0426.C3
Gene No.	114978	Strand	-
Start	18068	End	18377
Name	OJ000112_11.0426.C3.o3.tm	Method	TBLASTX:Maize
Start	4138	End	5192
GI	none	Score	110
Exons	4138..4278, 4145..4276, 4510..4650, 4512..4673, 4755..4952, 4790..4813, 4819..5013, 5055..5192, 5109..5192		

Seq. No.	54828	Seq. ID	OJ000112_11.0426.C3
Gene No.	114978	Strand	-
Start	18068	End	18377
Name	OJ000112_11.0426.C3.o2.tc	Method	TBLASTX:Cress
Start	5055	End	5465
GI	none	Score	63
Exons	5055..5198, 5073..5198, 5250..5465, 5257..5463		

Seq. No.	54828	Seq. ID	OJ000112_11.0426.C3
Gene No.	114978	Strand	-
Start	18068	End	18377
Name	OJ000112_11.0426.C3.o1.ts	Method	TBLASTX:Soybean
Start	5181	End	6564
GI	none	Score	353
Exons	5181..5198, 5218..5679, 5223..5666, 5285..5671, 6481..6564		

Seq. No.	54828	Seq. ID	OJ000112_11.0426.C3

Gene No.	114978	Strand	-
Start	18068	End	18377
Name	OJ000112_11.0426.C3.o1.tm	Method	TBLASTX:Maize
Start	5193	End	5619
GI	none	Score	282
Exons	5193..5618, 5224..5619		

Seq. No.	54828	Seq. ID	OJ000112_11.0426.C3
Gene No.	114978	Strand	-
Start	18068	End	18377
Name	OJ000112_11.0426.C3.o2.tw	Method	TBLASTX:Wheat
Start	5325	End	5645
GI	none	Score	231
Exons	5325..5645, 5344..5631		

Seq. No.	54828	Seq. ID	OJ000112_11.0426.C3
Gene No.	114978	Strand	-
Start	18068	End	18377
Name	OJ000112_11.0426.C3.o3.tc	Method	TBLASTX:Cress
Start	5466	End	5654
GI	none	Score	84
Exons	5466..5654, 5467..5604, 5475..5606		

Seq. No.	54828	Seq. ID	OJ000112_11.0426.C3
Gene No.	114978	Strand	-
Start	18068	End	18377
Name	OJ000112_11.0426.C3.o5.gs	Method	GENSCAN
Start	18068	End	18377
GI	none	Score	.41
Exons	18068..18191, 18244..18377		

Seq. No.	54828	Seq. ID	OJ000112_11.0426.C3
Gene No.	114978	Strand	-
Start	18068	End	18377
Name	OJ000112_11.0426.C3.o4.np	Method	AAT/NAP
Start	18225	End	18377
GI	7106513	Score	267
Exons	18225..18377		
GI Descrip.	(AP001278) hypothetical protein [Oryza sativa]		

Seq. No.	54829	Seq. ID	OJ000112_11.0426.C5
Gene No.	114979	Strand	-
Start	1	End	787
Name	OJ000112_11.0426.C5.o1.np	Method	AAT/NAP
Start	1	End	787
GI	5091513	Score	633
Exons	1..374, 750..787		
GI Descrip.	(AB023482) Hypothetical protein [Oryza sativa]		

Seq. No.	54829	Seq. ID	OJ000112_11.0426.C5
Gene No.	114979	Strand	-
Start	1	End	787
Name	OJ000112_11.0426.C5.o1.gs	Method	GENSCAN
Start	49	End	526
GI	none	Score	.42
Exons	49..526		

Seq. No.	54830	Seq. ID	OJ000112_11.0426.C6
Gene No.	114980	Strand	+
Start	1	End	541
Name	OJ000112_11.0426.C6.o1.gp	Method	AAT/GAP
Start	1	End	288
GI	LIB3434-007-P1-K1-F11	Score	572
Exons	1..288		
GI Descrip.	'2239083/emb|CAB06427| 2.0e-12 (Z84383) anthranilate N-hydroxycinnamoyl/benzoyltransferase [Dianthus caryophyllus] >gi_2239087_emb_CAB06429_ (Z84385) anthranilate N-hydroxycinnamoyl/benzoyltransferase [Dianthus caryophyllus]'		

Seq. No.	54830	Seq. ID	OJ000112_11.0426.C6
Gene No.	114980	Strand	+
Start	1	End	541
Name	OJ000112_11.0426.C6.o1.np	Method	AAT/NAP
Start	1	End	535
GI	6469032	Score	273
Exons	1..535		
GI Descrip.	(AB035183) N-hydroxycinnamoyl/benzoyltransferase [Ipomoea batatas]		

Seq. No.	54830	Seq. ID	OJ000112_11.0426.C6
Gene No.	114980	Strand	+
Start	1	End	541
Name	OJ000112_11.0426.C6.o1.gs	Method	GENSCAN
Start	17	End	541
GI	none	Score	1
Exons	17..541		

Seq. No.	54830	Seq. ID	OJ000112_11.0426.C6
Gene No.	114981	Strand	+
Start	2670	End	2910
Name	OJ000112_11.0426.C6.o1.tm	Method	TBLASTX:Maize
Start	1	End	532
GI	none	Score	676
Exons	1..435, 2..448, 479..532, 484..531		

Seq. No.	54830	Seq. ID	OJ000112_11.0426.C6
Gene No.	114981	Strand	+
Start	2670	End	2910
Name	OJ000112_11.0426.C6.o1.ts	Method	TBLASTX:Soybean
Start	2	End	430
GI	none	Score	200
Exons	2..274, 317..430		

Seq. No.	54830	Seq. ID	OJ000112_11.0426.C6
Gene No.	114981	Strand	+
Start	2670	End	2910
Name	OJ000112_11.0426.C6.o2.gs	Method	GENSCAN
Start	2670	End	2910
GI	none	Score	.7
Exons	2670..2910		

Seq. No.	54831	Seq. ID	OJ000112_11.0426.C7
Gene No.	114982	Strand	+
Start	2500	End	3678

Name	OJ000112_11.0426.C7.o1.gs	Method	GENSCAN
Start	2500	End	3678
GI	none	Score	.86
Exons	2500..3678		

Seq. No.	54831	Seq. ID	OJ000112_11.0426.C7
Gene No.	114983	Strand	+
Start	4221	End	9022
Name	OJ000112_11.0426.C7.o2.gs	Method	GENSCAN
Start	4221	End	9022
GI	none	Score	.66
Exons	4221..4426, 7049..7266, 7490..7528, 7771..7958, 8252..9022		

Seq. No.	54831	Seq. ID	OJ000112_11.0426.C7
Gene No.	114983	Strand	+
Start	4221	End	9022
Name	OJ000112_11.0426.C7.o2.gp	Method	AAT/GAP
Start	7212	End	7267
GI	2310829	Score	80
Exons	7212..7267		

Seq. No.	54831	Seq. ID	OJ000112_11.0426.C7
Gene No.	114984	Strand	+
Start	11834	End	14086
Name	OJ000112_11.0426.C7.o3.gs	Method	GENSCAN
Start	11834	End	14086
GI	none	Score	.93
Exons	11834..11873, 12583..12802, 13015..13021, 13196..14086		

Seq. No.	54831	Seq. ID	OJ000112_11.0426.C7
Gene No.	114985	Strand	+
Start	23250	End	26722
Name	OJ000112_11.0426.C7.o6.gs	Method	GENSCAN
Start	23250	End	26722
GI	none	Score	.63
Exons	23250..23354, 24295..26194, 26274..26722		

Seq. No.	54831	Seq. ID	OJ000112_11.0426.C7
Gene No.	114985	Strand	+
Start	23250	End	26722
Name	OJ000112_11.0426.C7.o1.np	Method	AAT/NAP
Start	23265	End	26719
GI	4867803	Score	1952
Exons	23265..23354, 24292..26194, 26274..26719		
GI Descrip.	(AJ133000) phospholipase D2 [Craterostigma plantagineum]		

Seq. No.	54831	Seq. ID	OJ000112_11.0426.C7
Gene No.	114985	Strand	+
Start	23250	End	26722
Name	OJ000112_11.0426.C7.o4.gp	Method	AAT/GAP
Start	24479	End	24830
GI	3090665	Score	544
Exons	24479..24830		

Seq. No.	54831	Seq. ID	OJ000112_11.0426.C7
Gene No.	114985	Strand	+
Start	23250	End	26722

Name	OJ000112_11.0426.C7.o5.gp	Method	AAT/GAP
Start	25269	End	25733
GI	2428287	Score	849
Exons	25269..25733		
GI Descrip.	2499708/sp|Q43270|PLD_MAIZE 2.0e-32 PHOSPHOLIPASE D PRECURSOR (PLD) (CHOLINE PHOSPHATASE) (PHOSPHATIDYLCHOLINE-HYDROLYZING PHOSPHOLIPASE D) >gi_1020409_dbj_BAA11135_ (D73410) phospholipase D [Zea mays]		

Seq. No.	54831	Seq. ID	OJ000112_11.0426.C7
Gene No.	114985	Strand	+
Start	23250	End	26722
Name	OJ000112_11.0426.C7.o6.gp	Method	AAT/GAP
Start	25878	End	26365
GI	uC-osflM202064c05a1	Score	683
Exons	25878..26194, 26274..26365		
GI Descrip.	'2499709/sp|Q43007|PLD1_ORYSA 4.0e-29 PHOSPHOLIPASE D 1 PRECURSOR (PLD 1) (CHOLINE PHOSPHATASE 1) (PHOSPHATIDYLCHOLINE-HYDROLYZING PHOSPHOLIPASE D 1) >gi_1020415_dbj_BAA11136_ (D73411) phospholipase D [Oryza sativa] >gi_1902903_dbj_BAA19467_ (AB001920) phospholipase D [Oryza sativa]'		

Seq. No.	54831	Seq. ID	OJ000112_11.0426.C7
Gene No.	114985	Strand	+
Start	23250	End	26722
Name	OJ000112_11.0426.C7.o7.gp	Method	AAT/GAP
Start	25906	End	26393
GI	uC-osflM202064c05a1	Score	715
Exons	25906..26194, 26274..26393		
GI Descrip.	'2499709/sp|Q43007|PLD1_ORYSA 4.0e-29 PHOSPHOLIPASE D 1 PRECURSOR (PLD 1) (CHOLINE PHOSPHATASE 1) (PHOSPHATIDYLCHOLINE-HYDROLYZING PHOSPHOLIPASE D 1) >gi_1020415_dbj_BAA11136_ (D73411) phospholipase D [Oryza sativa] >gi_1902903_dbj_BAA19467_ (AB001920) phospholipase D [Oryza sativa]'		

Seq. No.	54831	Seq. ID	OJ000112_11.0426.C7
Gene No.	114986	Strand	+
Start	28019	End	29998
Name	OJ000112_11.0426.C7.o2.np	Method	AAT/NAP
Start	27250	End	29998
GI	6056206	Score	730
Exons	27250..27371, 28214..28315, 28531..28649, 29149..29262, 29340..29421, 29499..29566, 29648..29722, 29850..29998		
GI Descrip.	(AC009400) putative kinesin-like centromere protein [Arabidopsis thaliana]		

Seq. No.	54831	Seq. ID	OJ000112_11.0426.C7
Gene No.	114986	Strand	+
Start	28019	End	29998
Name	OJ000112_11.0426.C7.o7.gs	Method	GENSCAN
Start	28019	End	29997
GI	none	Score	.81
Exons	28019..28145, 28226..28315, 28531..28649, 29149..29262, 29648..29722, 29850..29997		

Seq. No.	54831	Seq. ID	OJ000112_11.0426.C7
Gene No.	114987	Strand	-
Start	616	End	697
Name	OJ000112_11.0426.C7.o1.gp	Method	AAT/GAP
Start	616	End	697
GI	LIB3477-003-P1-K1-E9	Score	119
Exons	616..697		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	54831	Seq. ID	OJ000112_11.0426.C7
Gene No.	114988	Strand	-
Start	14709	End	15943
Name	OJ000112_11.0426.C7.o3.gp	Method	AAT/GAP
Start	14532	End	15066
GI	3769159	Score	780
Exons	14532..14900, 14990..15066		

Seq. No.	54831	Seq. ID	OJ000112_11.0426.C7
Gene No.	114988	Strand	-
Start	14709	End	15943
Name	OJ000112_11.0426.C7.o4.gs	Method	GENSCAN
Start	14709	End	15943
GI	none	Score	.76
Exons	14709..14900, 14990..15176, 15339..15409, 15797..15943		

Seq. No.	54831	Seq. ID	OJ000112_11.0426.C7
Gene No.	114989	Strand	-
Start	19008	End	21048
Name	OJ000112_11.0426.C7.o5.gs	Method	GENSCAN
Start	19008	End	21048
GI	none	Score	.82
Exons	19008..19238, 19339..19628, 19849..19902, 21003..21048		

Seq. No.	54831	Seq. ID	OJ000112_11.0426.C7
Gene No.	114989	Strand	-
Start	19008	End	21048
Name	OJ000112_11.0426.C7.o2.tm	Method	TBLASTX:Maize
Start	19171	End	19503
GI	none	Score	65
Exons	19171..19239, 19173..19241, 19182..19241, 19331..19378, 19333..19395, 19339..19380, 19396..19503, 19438..19503		

Seq. No.	54831	Seq. ID	OJ000112_11.0426.C7
Gene No.	114990	Strand	
Start	24301	End	26722
Name	OJ000112_11.0426.C7.o1.tm	Method	TBLASTX:Maize
Start	24301	End	26722
GI	none	Score	167
Exons	24301..24582, 24342..24488, 24379..24594, 24619..24951, 24642..24755, 24748..24978, 24955..25215, 25017..25208, 25255..25554, 25263..25301, 25401..25535, 25573..25794, 25587..25778, 25806..26018, 25807..26025, 26028..26192, 26029..26193, 26272..26370, 26273..26380, 26402..26452, 26423..26446, 26459..26572, 26561..26722, 26572..26721		

Seq. No.	54831	Seq. ID	OJ000112_11.0426.C7
Gene No.	114990	Strand	
Start	24301	End	26722
Name	OJ000112_11.0426.C7.o2.ts	Method	TBLASTX:Soybean
Start	24301	End	25296
GI	none	Score	441
Exons	24301..24951, 24618..24755, 24832..24933, 24958..25215, 25023..25208, 25255..25296, 25257..25295		

Seq. No.	54831	Seq. ID	OJ000112_11.0426.C7
Gene No.	114990	Strand	
Start	24301	End	26722
Name	OJ000112_11.0426.C7.o1.tc	Method	TBLASTX:Cress
Start	24304	End	26722
GI	none	Score	436
Exons	24304..24951, 24627..24755, 24748..24933, 24955..25215, 25023..25208, 25258..25341, 25263..25301, 25321..25539, 25359..25538, 25573..25803, 25584..25802, 25807..26022, 25818..26018, 26037..26192, 26038..26193, 26272..26358, 26273..26383, 26401..26451, 26402..26452, 26459..26572, 26572..26718, 26573..26722		

Seq. No.	54831	Seq. ID	OJ000112_11.0426.C7
Gene No.	114990	Strand	
Start	24301	End	26722
Name	OJ000112_11.0426.C7.o2.tw	Method	TBLASTX:Wheat
Start	24610	End	25026
GI	none	Score	48
Exons	24610..24663, 24667..24990, 24748..24951, 24958..25026, 24961..25026		

Seq. No.	54831	Seq. ID	OJ000112_11.0426.C7
Gene No.	114990	Strand	
Start	24301	End	26722
Name	OJ000112_11.0426.C7.o3.ts	Method	TBLASTX:Soybean
Start	25297	End	25554
GI	none	Score	275
Exons	25297..25554, 25401..25499		

Seq. No.	54831	Seq. ID	OJ000112_11.0426.C7
Gene No.	114990	Strand	
Start	24301	End	26722
Name	OJ000112_11.0426.C7.o1.ts	Method	TBLASTX:Soybean
Start	25573	End	26722
GI	none	Score	243
Exons	25573..25803, 25587..25778, 25806..26018, 25807..26022, 26037..26099, 26038..26193, 26272..26370, 26273..26380, 26401..26451, 26402..26452, 26483..26572, 26572..26718, 26573..26722		

Seq. No.	54831	Seq. ID	OJ000112_11.0426.C7
Gene No.	114990	Strand	
Start	24301	End	26722
Name	OJ000112_11.0426.C7.o1.tw	Method	TBLASTX:Wheat
Start	25902	End	26380
GI	none	Score	109
Exons	25902..26018, 25903..26022, 26029..26193, 26031..26099,		

26272..26379, 26273..26380

Seq. No.	54832	Seq. ID	OJ000112_11.0426.C8
Gene No.	114991	Strand	+
Start	1	End	2867
Name	OJ000112_11.0426.C8.o1.np	Method	AAT/NAP
Start	1	End	1001
GI	6056206	Score	314
Exons	1..21, 296..384, 473..541, 615..674, 756..1001		
GI Descrip.	(AC009400) putative kinesin-like centromere protein [Arabidopsis thaliana]		

Seq. No.	54832	Seq. ID	OJ000112_11.0426.C8
Gene No.	114991	Strand	+
Start	1	End	2867
Name	OJ000112_11.0426.C8.o1.gs	Method	GENSCAN
Start	304	End	2867
GI	none	Score	.86
Exons	304..384, 434..541, 756..917, 1621..1845, 1977..2150, 2292..2399, 2499..2564, 2712..2867		

Seq. No.	54833	Seq. ID	OJ000112_11.0426.C9
Gene No.	114992	Strand	+
Start	1	End	13800
Name	OJ000112_11.0426.C9.o1.np	Method	AAT/NAP
Start	1	End	1800
GI	6056207	Score	357
Exons	1..179, 325..463, 1224..1438, 1549..1638, 1722..1800		
GI Descrip.	(AC009400) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	54833	Seq. ID	OJ000112_11.0426.C9
Gene No.	114992	Strand	+
Start	1	End	13800
Name	OJ000112_11.0426.C9.o1.gs	Method	GENSCAN
Start	72	End	13800
GI	none	Score	.58
Exons	72..179, 325..492, 1232..1438, 1722..1859, 2506..2600, 3388..3515, 4072..4196, 4658..4729, 6182..6359, 7277..7509, 8415..8634, 9077..9172, 9949..10184, 10800..10913, 11294..11471, 12479..12701, 12866..13011, 13721..13800		

Seq. No.	54833	Seq. ID	OJ000112_11.0426.C9
Gene No.	114992	Strand	+
Start	1	End	13800
Name	OJ000112_11.0426.C9.o1.gp	Method	AAT/GAP
Start	1215	End	1845
GI	LIB3434-009-P1-K1-A3	Score	791
Exons	1215..1438, 1549..1638, 1722..1845		
GI Descrip.	'6056207/gb|AAF02824.1|AC009400_20 2.0e-18 (AC009400) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	54833	Seq. ID	OJ000112_11.0426.C9
Gene No.	114992	Strand	+
Start	1	End	13800
Name	OJ000112_11.0426.C9.o2.np	Method	AAT/NAP
Start	7294	End	10740
GI	6689381	Score	1219

Exons	7294..7509, 8093..8260, 8415..8634, 9149..9235, 9767..9872, 9949..10184, 10654..10740		
GI Descrip.	(AJ238622) deoxyhypusine synthase [Senecio vernalis]		

Seq. No.	54833	Seq. ID	OJ000112_11.0426.C9
Gene No.	114993	Strand	-
Start	15841	End	16478
Name	OJ000112_11.0426.C9.o3.tm	Method	TBLASTX:Maize
Start	2	End	427
GI	none	Score	80
Exons	2..70, 3..161, 11..175, 22..177, 72..179, 76..180, 321..425, 323..427, 324..425, 325..426		

Seq. No.	54833	Seq. ID	OJ000112_11.0426.C9
Gene No.	114993	Strand	-
Start	15841	End	16478
Name	OJ000112_11.0426.C9.o2.tm	Method	TBLASTX:Maize
Start	7312	End	8270
GI	none	Score	231
Exons	7312..7512, 7318..7413, 7332..7508, 8088..8267, 8089..8262, 8093..8266, 8094..8270, 8099..8269		

Seq. No.	54833	Seq. ID	OJ000112_11.0426.C9
Gene No.	114993	Strand	-
Start	15841	End	16478
Name	OJ000112_11.0426.C9.o1.ts	Method	TBLASTX:Soybean
Start	7437	End	8497
GI	none	Score	89
Exons	7437..7511, 7453..7512, 8093..8266, 8093..8266, 8429..8497, 8439..8495		

Seq. No.	54833	Seq. ID	OJ000112_11.0426.C9
Gene No.	114993	Strand	-
Start	15841	End	16478
Name	OJ000112_11.0426.C9.o1.tm	Method	TBLASTX:Maize
Start	8450	End	10734
GI	none	Score	273
Exons	8450..8602, 8451..8603, 8598..8633, 8602..8634, 9149..9235, 9151..9234, 9761..9871, 9764..9871, 9766..9873, 9766..9876, 9927..10187, 9947..10186, 9958..10197, 10648..10734, 10653..10715		

Seq. No.	54833	Seq. ID	OJ000112_11.0426.C9
Gene No.	114993	Strand	-
Start	15841	End	16478
Name	OJ000112_11.0426.C9.o2.gs	Method	GENSCAN
Start	15841	End	16478
GI	none	Score	.74
Exons	15841..16136, 16181..16478		

Seq. No.	54834	Seq. ID	OJ000112_11.0426.C10
Gene No.	114994	Strand	+
Start	590	End	2939
Name	OJ000112_11.0426.C10.o1.gs	Method	GENSCAN
Start	590	End	2939
GI	none	Score	.49
Exons	590..662, 1466..1618, 2352..2495, 2917..2939		

Seq. No.	54834	Seq. ID	OJ000112_11.0426.C10
Gene No.	114995	Strand	+
Start	4522	End	4760
Name	OJ000112_11.0426.C10.o1.gp	Method	AAT/GAP
Start	4522	End	4760
GI	LIB3477-003-P1-K1-E9	Score	116
Exons	4522..4569, 4701..4760		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	54834	Seq. ID	OJ000112_11.0426.C10
Gene No.	114996	Strand	-
Start	210	End	8135
Name	OJ000112_11.0426.C10.o1.np	Method	AAT/NAP
Start	210	End	7961
GI	4680204	Score	733
Exons	210..252, 4916..5010, 5361..5580, 5675..5848, 5956..7052, 7148..7961		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	54834	Seq. ID	OJ000112_11.0426.C10
Gene No.	114996	Strand	-
Start	210	End	8135
Name	OJ000112_11.0426.C10.o2.gs	Method	GENSCAN
Start	4858	End	8135
GI	none	Score	.83
Exons	4858..5040, 5120..5218, 5313..5385, 5470..5580, 5675..5848, 5956..6641, 6643..6785, 6911..7052, 7148..7267, 7305..7637, 7968..8135		

Seq. No.	54834	Seq. ID	OJ000112_11.0426.C10
Gene No.	114997	Strand	-
Start	8279	End	10587
Name	OJ000112_11.0426.C10.o4.tw	Method	TBLASTX:Wheat
Start	5511	End	6029
GI	none	Score	66
Exons	5511..5582, 5680..5862, 5687..5812, 5949..6029		

Seq. No.	54834	Seq. ID	OJ000112_11.0426.C10
Gene No.	114997	Strand	-
Start	8279	End	10587
Name	OJ000112_11.0426.C10.o2.tw	Method	TBLASTX:Wheat
Start	7512	End	7905
GI	none	Score	74
Exons	7512..7607, 7685..7903, 7707..7802, 7709..7903, 7765..7905, 7825..7905		

Seq. No.	54834	Seq. ID	OJ000112_11.0426.C10
Gene No.	114997	Strand	-
Start	8279	End	10587
Name	OJ000112_11.0426.C10.o3.gp	Method	AAT/GAP
Start	8279	End	10587
GI	342_1.R1084	Score	3800
Exons	8279..8691, 8770..8789, 8825..10587		
GI Descrip.	'4574406/gb|AAD24042.1| 0.0e+00 (AF121139) RIM2 protein [Oryza		

sativa]'

Seq. No.	54834	Seq. ID	OJ000112_11.0426.C10
Gene No.	114997	Strand	-
Start	8279	End	10587
Name	OJ000112_11.0426.C10.o2.gp	Method	AAT/GAP
Start	8834	End	9277
GI	LIB3431-028-P1-N1-A10	Score	764
Exons	8834..8903, 8931..9277		
GI Descrip.	'4680203/gb|AAD27566.1|AF114171_7 3.0e-33 (AF114171) TNP2-like protein [Sorghum bicolor]'		

Seq. No.	54834	Seq. ID	OJ000112_11.0426.C10
Gene No.	114997	Strand	-
Start	8279	End	10587
Name	OJ000112_11.0426.C10.o1.tw	Method	TBLASTX:Wheat
Start	8972	End	10286
GI	none	Score	94
Exons	8972..9034, 9052..9132, 9145..9258, 9154..9255, 9182..9286, 9265..9324, 9266..9328, 9331..9372, 9331..9375, 9336..9377, 9370..9600, 9386..9529, 9606..9728, 9606..9698, 9689..10285, 9741..10286		

Seq. No.	54834	Seq. ID	OJ000112_11.0426.C10
Gene No.	114997	Strand	-
Start	8279	End	10587
Name	OJ000112_11.0426.C10.o3.gs	Method	GENSCAN
Start	9022	End	10135
GI	none	Score	.72
Exons	9022..9521, 9629..9676, 9718..10135		

Seq. No.	54834	Seq. ID	OJ000112_11.0426.C10
Gene No.	114997	Strand	-
Start	8279	End	10587
Name	OJ000112_11.0426.C10.o2.np	Method	AAT/NAP
Start	9455	End	10587
GI	6742729	Score	1762
Exons	9455..10587		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	54834	Seq. ID	OJ000112_11.0426.C10
Gene No.	114997	Strand	-
Start	8279	End	10587
Name	OJ000112_11.0426.C10.o1.tc	Method	TBLASTX:Cress
Start	9606	End	10002
GI	none	Score	62
Exons	9606..9728, 9606..9698, 9689..9994, 9741..9998, 9847..10002		

Seq. No.	54834	Seq. ID	OJ000112_11.0426.C10
Gene No.	114997	Strand	-
Start	8279	End	10587
Name	OJ000112_11.0426.C10.o1.tm	Method	TBLASTX:Maize
Start	9929	End	10243
GI	none	Score	68
Exons	9929..10159, 9929..10243, 9957..10232		

Seq. No.	54834	Seq. ID	OJ000112_11.0426.C10

Gene No.	114997	Strand	-
Start	8279	End	10587
Name	OJ000112_11.0426.C10.o3.tw	Method	TBLASTX:Wheat
Start	10287	End	10587
GI	none	Score	81
Exons	10287..10373, 10289..10378, 10289..10372, 10406..10546, 10446..10547, 10549..10587		

Seq. No.	54835	Seq. ID	OJ000112_11.0426.C11
Gene No.	114998	Strand	-
Start	1	End	1724
Name	OJ000112_11.0426.C11.o1.gp	Method	AAT/GAP
Start	1	End	1232
GI	342_1.R1084	Score	1944
Exons	1..1232		
GI Descrip.	'4574406/gb|AAD24042.1| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	54835	Seq. ID	OJ000112_11.0426.C11
Gene No.	114998	Strand	-
Start	1	End	1724
Name	OJ000112_11.0426.C11.o1.np	Method	AAT/NAP
Start	1	End	1229
GI	4680203	Score	1460
Exons	1..1229		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	54835	Seq. ID	OJ000112_11.0426.C11
Gene No.	114998	Strand	-
Start	1	End	1724
Name	OJ000112_11.0426.C11.o1.tw	Method	TBLASTX:Wheat
Start	2	End	316
GI	none	Score	274
Exons	2..316, 10..315		

Seq. No.	54835	Seq. ID	OJ000112_11.0426.C11
Gene No.	114998	Strand	-
Start	1	End	1724
Name	OJ000112_11.0426.C11.o1.gs	Method	GENSCAN
Start	40	End	1236
GI	none	Score	.68
Exons	40..596, 777..1236		

Seq. No.	54835	Seq. ID	OJ000112_11.0426.C11
Gene No.	114998	Strand	-
Start	1	End	1724
Name	OJ000112_11.0426.C11.o1.tm	Method	TBLASTX:Maize
Start	56	End	339
GI	none	Score	141
Exons	56..316, 58..339		

Seq. No.	54835	Seq. ID	OJ000112_11.0426.C11
Gene No.	114998	Strand	-
Start	1	End	1724
Name	OJ000112_11.0426.C11.o1.tc	Method	TBLASTX:Cress
Start	103	End	451
GI	none	Score	77

Exons	103..444, 122..259, 299..451		
Seq. No.	54835	Seq. ID	OJ000112_11.0426.C11
Gene No.	114998	Strand	-
Start	1	End	1724
Name	OJ000112_11.0426.C11.o2.gp	Method	AAT/GAP
Start	103	End	1724
GI	2310235	Score	291
Exons	103..123, 1097..1236, 1687..1724		
GI Descrip.	5852182/emb|CAB55420.1| 9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]		
Seq. No.	54835	Seq. ID	OJ000112_11.0426.C11
Gene No.	114998	Strand	-
Start	1	End	1724
Name	OJ000112_11.0426.C11.o1.ts	Method	TBLASTX:Soybean
Start	184	End	613
GI	none	Score	104
Exons	184..480, 202..423, 203..448, 527..613, 538..612		
Seq. No.	54835	Seq. ID	OJ000112_11.0426.C11
Gene No.	114998	Strand	-
Start	1	End	1724
Name	OJ000112_11.0426.C11.o2.tw	Method	TBLASTX:Wheat
Start	534	End	930
GI	none	Score	187
Exons	534..776, 542..784, 544..786, 545..787, 778..930		
Seq. No.	54836	Seq. ID	OJ000112_11.0426.C12
Gene No.	114999	Strand	+
Start	1538	End	1637
Name	OJ000112_11.0426.C12.o1.gs	Method	GENSCAN
Start	1538	End	1637
GI	none	Score	.97
Exons	1538..1637		
Seq. No.	54836	Seq. ID	OJ000112_11.0426.C12
Gene No.	115000	Strand	-
Start	1526	End	1856
Name	OJ000112_11.0426.C12.o1.np	Method	AAT/NAP
Start	1526	End	1709
GI	7106512	Score	112
Exons	1526..1576, 1650..1709		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		
Seq. No.	54836	Seq. ID	OJ000112_11.0426.C12
Gene No.	115000	Strand	-
Start	1526	End	1856
Name	OJ000112_11.0426.C12.o1.gp	Method	AAT/GAP
Start	1607	End	1856
GI	3761181	Score	412
Exons	1607..1856		
GI Descrip.	4521193/dbj|AB013450.1|AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene		
Seq. No.	54837	Seq. ID	OJ000112_10.0426.C1

Gene No.	115001	Strand	-
Start	503	End	959
Name	OJ000112_10.0426.C1.o1.gs	Method	GENSCAN
Start	503	End	835
GI	none	Score	.55
Exons	503..835		

Seq. No.	54837	Seq. ID	OJ000112_10.0426.C1
Gene No.	115001	Strand	-
Start	503	End	959
Name	OJ000112_10.0426.C1.o1.tm	Method	TBLASTX:Maize
Start	627	End	959
GI	none	Score	168
Exons	627..851, 631..945, 635..958, 636..959		

Seq. No.	54838	Seq. ID	OJ000112_10.0426.C4
Gene No.	115002	Strand	-
Start	277	End	2343
Name	OJ000112_10.0426.C4.o1.gs	Method	GENSCAN
Start	277	End	2337
GI	none	Score	.58
Exons	277..350, 873..1070, 1210..2337		

Seq. No.	54838	Seq. ID	OJ000112_10.0426.C4
Gene No.	115002	Strand	-
Start	277	End	2343
Name	OJ000112_10.0426.C4.o1.tm	Method	TBLASTX:Maize
Start	1840	End	2343
GI	none	Score	162
Exons	1840..2085, 1840..2154, 1842..2165, 1881..2147, 2110..2253, 2151..2270, 2164..2241, 2245..2343, 2254..2340		

Seq. No.	54839	Seq. ID	OJ000112_10.0426.C5
Gene No.	115003	Strand	-
Start	1055	End	3337
Name	OJ000112_10.0426.C5.o1.gs	Method	GENSCAN
Start	1055	End	3337
GI	none	Score	.64
Exons	1055..1136, 1635..1807, 1883..2058, 3157..3337		

Seq. No.	54839	Seq. ID	OJ000112_10.0426.C5
Gene No.	115004	Strand	-
Start	3608	End	7716
Name	OJ000112_10.0426.C5.o2.gs	Method	GENSCAN
Start	3608	End	6477
GI	none	Score	.52
Exons	3608..3778, 3955..4084, 5084..6477		

Seq. No.	54839	Seq. ID	OJ000112_10.0426.C5
Gene No.	115004	Strand	-
Start	3608	End	7716
Name	OJ000112_10.0426.C5.o1.tm	Method	TBLASTX:Maize
Start	5992	End	7716
GI	none	Score	56
Exons	5992..6069, 5993..6049, 6064..6180, 6077..6145, 6142..6264, 6164..6256, 6260..6331, 6281..6343, 6283..6363, 7236..7472, 7238..7474, 7248..7376, 7276..7440, 7514..7537, 7529..7636,		

7530..7619, 7543..7653, 7547..7624, 7675..7716

Seq. No.	54840	Seq. ID	OJ000112_10.0426.C6
Gene No.	115005	Strand	+
Start	3756	End	4128
Name	OJ000112_10.0426.C6.o2.gs	Method	GENSCAN
Start	3756	End	4128
GI	none	Score	.71
Exons	3756..3833, 3967..4128		

Seq. No.	54840	Seq. ID	OJ000112_10.0426.C6
Gene No.	115006	Strand	-
Start	80	End	2357
Name	OJ000112_10.0426.C6.o1.gs	Method	GENSCAN
Start	80	End	2357
GI	none	Score	.57
Exons	80..190, 208..395, 507..567, 1204..1462, 2183..2357		

Seq. No.	54840	Seq. ID	OJ000112_10.0426.C6
Gene No.	115007	Strand	-
Start	5767	End	9251
Name	OJ000112_10.0426.C6.o3.gs	Method	GENSCAN
Start	5767	End	9251
GI	none	Score	.6
Exons	5767..7003, 7138..7292, 8617..8730, 9207..9251		

Seq. No.	54840	Seq. ID	OJ000112_10.0426.C6
Gene No.	115008	Strand	-
Start	9844	End	11383
Name	OJ000112_10.0426.C6.o2.tm	Method	TBLASTX:Maize
Start	11	End	11383
GI	none	Score	49
Exons	11..118, 12..80, 71..127, 165..185, 178..252, 204..272, 6517..6585, 6518..6571, 6598..6792, 6617..6784, 6676..6789, 6762..6818, 6810..6878, 6810..6878, 6811..6909, 6811..6900, 10882..11085, 10883..11197, 10896..11207, 11152..11295, 11189..11284, 11193..11300, 11206..11286, 11321..11383, 11322..11372		

Seq. No.	54840	Seq. ID	OJ000112_10.0426.C6
Gene No.	115008	Strand	-
Start	9844	End	11383
Name	OJ000112_10.0426.C6.o1.tm	Method	TBLASTX:Maize
Start	4995	End	5409
GI	none	Score	75
Exons	4995..5150, 4996..5115, 5031..5369, 5136..5387, 5137..5409, 5152..5394		

Seq. No.	54840	Seq. ID	OJ000112_10.0426.C6
Gene No.	115008	Strand	-
Start	9844	End	11383
Name	OJ000112_10.0426.C6.o1.tw	Method	TBLASTX:Wheat
Start	5007	End	5462
GI	none	Score	70
Exons	5007..5105, 5184..5462, 5200..5313		

Seq. No.	54840	Seq. ID	OJ000112_10.0426.C6

Gene No.	115008	Strand	-
Start	9844	End	11383
Name	OJ000112_10.0426.C6.o1.ts	Method	TBLASTX:Soybean
Start	5181	End	5478
GI	none	Score	76
Exons	5181..5366, 5203..5346, 5355..5462, 5359..5478		

Seq. No.	54840	Seq. ID	OJ000112_10.0426.C6
Gene No.	115008	Strand	-
Start	9844	End	11383
Name	OJ000112_10.0426.C6.o3.tm	Method	TBLASTX:Maize
Start	5643	End	10329
GI	none	Score	178
Exons	5643..5729, 9977..10312, 9980..10234, 9988..10329		

Seq. No.	54840	Seq. ID	OJ000112_10.0426.C6
Gene No.	115008	Strand	-
Start	9844	End	11383
Name	OJ000112_10.0426.C6.o4.gs	Method	GENSCAN
Start	9844	End	11379
GI	none	Score	.93
Exons	9844..11379		

Seq. No.	54841	Seq. ID	OJ000112_10.0426.C7
Gene No.	115009	Strand	+
Start	171	End	1559
Name	OJ000112_10.0426.C7.o1.gs	Method	GENSCAN
Start	171	End	1559
GI	none	Score	.7
Exons	171..530, 1435..1559		

Seq. No.	54842	Seq. ID	OJ000112_10.0426.C8
Gene No.	115010	Strand	+
Start	1	End	72
Name	OJ000112_10.0426.C8.o1.gp	Method	AAT/GAP
Start	1	End	72
GI	90742_1.R1084	Score	110
Exons	1..72		
GI Descrip.	'5734616/dbj|AP000391.1|AP000391 4.0e-29 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		

Seq. No.	54843	Seq. ID	OJ000112_10.0426.C9
Gene No.	115011	Strand	+
Start	11	End	1245
Name	OJ000112_10.0426.C9.o1.np	Method	AAT/NAP
Start	11	End	1245
GI	6522540	Score	284
Exons	11..63, 771..1245		
GI Descrip.	(AL132955) receptor-kinase like protein [Arabidopsis thaliana]		

Seq. No.	54843	Seq. ID	OJ000112_10.0426.C9
Gene No.	115011	Strand	+
Start	11	End	1245
Name	OJ000112_10.0426.C9.o1.tc	Method	TBLASTX:Cress
Start	788	End	1237
GI	none	Score	49
Exons	788..859, 878..1234, 989..1237		

Seq. No.	54843	Seq. ID	OJ000112_10.0426.C9
Gene No.	115011	Strand	+
Start	11	End	1245
Name	OJ000112_10.0426.C9.o1.ts	Method	TBLASTX:Soybean
Start	824	End	1240
GI	none	Score	257
Exons	824..1240, 860..1057, 926..1192		

Seq. No.	54843	Seq. ID	OJ000112_10.0426.C9
Gene No.	115011	Strand	+
Start	11	End	1245
Name	OJ000112_10.0426.C9.o1.tw	Method	TBLASTX:Wheat
Start	836	End	1153
GI	none	Score	95
Exons	836..913, 917..1081, 992..1153		

Seq. No.	54843	Seq. ID	OJ000112_10.0426.C9
Gene No.	115011	Strand	+
Start	11	End	1245
Name	OJ000112_10.0426.C9.o1.tm	Method	TBLASTX:Maize
Start	917	End	1243
GI	none	Score	147
Exons	917..1207, 917..1093, 926..1243, 929..1243, 929..1147, 992..1240		

Seq. No.	54844	Seq. ID	OJ000112_10.0426.C10
Gene No.	115012	Strand	+
Start	1	End	2238
Name	OJ000112_10.0426.C10.o1.np	Method	AAT/NAP
Start	1	End	2238
GI	2130082	Score	1239
Exons	1..1751, 1849..2238		
GI Descrip.	protein kinase Xa21 (EC 2.7.1.-) - rice gi|1122443 (U37133) receptor kinase-like protein [Oryza sativa] gi|2586085 (U72723) receptor kinase-like protein [Oryza longistaminata] gi|1586408|prf||2203451A receptor kinase-like protein [Oryza sativa]		

Seq. No.	54844	Seq. ID	OJ000112_10.0426.C10
Gene No.	115012	Strand	+
Start	1	End	2238
Name	OJ000112_10.0426.C10.o2.ts	Method	TBLASTX:Soybean
Start	2	End	964
GI	none	Score	40
Exons	2..73, 194..604, 194..604, 197..604, 205..531, 226..462, 659..889, 659..892, 659..889, 659..889, 662..964, 662..895, 662..892, 730..894, 755..895		

Seq. No.	54844	Seq. ID	OJ000112_10.0426.C10
Gene No.	115012	Strand	+
Start	1	End	2238
Name	OJ000112_10.0426.C10.o1.tw	Method	TBLASTX:Wheat
Start	17	End	892
GI	none	Score	257
Exons	17..439, 173..514, 277..495, 341..541, 659..799, 665..766, 698..892		

Seq. No.	54844	Seq. ID	OJ000112_10.0426.C10
Gene No.	115012	Strand	+
Start	1	End	2238
Name	OJ000112_10.0426.C10.o1.gp	Method	AAT/GAP
Start	23	End	483
GI	uC-osf1cyp055h11b1	Score	914
Exons	23..483		
GI Descrip.	'2130082/pir||A57676 8.0e-25 protein kinase Xa21 (EC 2.7.1.-) - rice >gi_1122443 (U37133) receptor kinase-like protein [Oryza sativa] >gi_2586085 (U72723) receptor kinase-like protein [Oryza longistaminata] >gi_1586408_prf__2203451A receptor kinase-like protein [Oryza sativa]'		

Seq. No.	54844	Seq. ID	OJ000112_10.0426.C10
Gene No.	115012	Strand	+
Start	1	End	2238
Name	OJ000112_10.0426.C10.o1.tc	Method	TBLASTX:Cress
Start	98	End	1943
GI	none	Score	72
Exons	98..226, 104..190, 173..601, 173..604, 191..604, 191..595, 191..895, 194..604, 194..529, 194..463, 199..531, 200..604, 203..604, 206..604, 292..399, 338..604, 349..483, 371..538, 376..540, 464..535, 572..604, 655..936, 659..814, 659..889, 659..889, 659..940, 662..895, 662..892, 662..892, 749..817, 782..895, 1145..1246, 1265..1363, 1475..1681, 1519..1680, 1697..1750, 1836..1943		

Seq. No.	54844	Seq. ID	OJ000112_10.0426.C10
Gene No.	115012	Strand	+
Start	1	End	2238
Name	OJ000112_10.0426.C10.o2.tm	Method	TBLASTX:Maize
Start	173	End	895
GI	none	Score	208
Exons	173..604, 191..604, 191..370, 206..604, 221..514, 266..604, 335..604, 497..532, 639..677, 659..871, 659..895, 659..889, 659..889, 662..886, 662..895		

Seq. No.	54844	Seq. ID	OJ000112_10.0426.C10
Gene No.	115012	Strand	+
Start	1	End	2238
Name	OJ000112_10.0426.C10.o1.gs	Method	GENSCAN
Start	332	End	2216
GI	none	Score	.96
Exons	332..1751, 1849..2216		

Seq. No.	54844	Seq. ID	OJ000112_10.0426.C10
Gene No.	115012	Strand	+
Start	1	End	2238
Name	OJ000112_10.0426.C10.o1.ts	Method	TBLASTX:Soybean
Start	1157	End	2204
GI	none	Score	91
Exons	1157..1249, 1174..1239, 1264..1656, 1265..1705, 1826..1981, 1848..2030, 2096..2197, 2106..2204		

Seq. No.	54844	Seq. ID	OJ000112_10.0426.C10
Gene No.	115012	Strand	+
Start	1	End	2238

Name	OJ000112_10.0426.C10.o1.tm	Method	TBLASTX:Maize
Start	1328	End	1681
GI	none	Score	416
Exons	1328..1681, 1328..1567, 1336..1680		

Seq. No.	54844	Seq. ID	OJ000112_10.0426.C10
Gene No.	115012	Strand	+
Start	1	End	2238
Name	OJ000112_10.0426.C10.o2.tw	Method	TBLASTX:Wheat
Start	1496	End	1943
GI	none	Score	124
Exons	1496..1654, 1727..1750, 1836..1943, 1847..1942		

Seq. No.	54844	Seq. ID	OJ000112_10.0426.C10
Gene No.	115012	Strand	+
Start	1	End	2238
Name	OJ000112_10.0426.C10.o3.tm	Method	TBLASTX:Maize
Start	1702	End	2210
GI	none	Score	60
Exons	1702..1749, 1703..1750, 1847..2044, 1848..2045, 1873..2100, 2060..2209, 2064..2210		

Seq. No.	54845	Seq. ID	OJ000112_10.0426.C11
Gene No.	115013	Strand	-
Start	144	End	735
Name	OJ000112_10.0426.C11.o1.gs	Method	GENSCAN
Start	144	End	735
GI	none	Score	.61
Exons	144..735		

Seq. No.	54845	Seq. ID	OJ000112_10.0426.C11
Gene No.	115014	Strand	-
Start	1447	End	2253
Name	OJ000112_10.0426.C11.o1.tm	Method	TBLASTX:Maize
Start	238	End	741
GI	none	Score	233
Exons	238..552, 239..553, 544..651, 545..640, 549..668, 643..741, 652..738		

Seq. No.	54845	Seq. ID	OJ000112_10.0426.C11
Gene No.	115014	Strand	-
Start	1447	End	2253
Name	OJ000112_10.0426.C11.o2.gs	Method	GENSCAN
Start	1447	End	2253
GI	none	Score	.94
Exons	1447..1453, 1996..2107, 2157..2253		

Seq. No.	54846	Seq. ID	OJ000112_10.0426.C12
Gene No.	115015	Strand	+
Start	5901	End	6664
Name	OJ000112_10.0426.C12.o3.gs	Method	GENSCAN
Start	5901	End	6664
GI	none	Score	.88
Exons	5901..5998, 6331..6476, 6528..6664		

Seq. No.	54846	Seq. ID	OJ000112_10.0426.C12
Gene No.	115016	Strand	-

Start	461	End	1984
Name	OJ000112_10.0426.C12.o1.gs	Method	GENSCAN
Start	461	End	1984
GI	none	Score	.86
Exons	461..1984		

Seq. No.	54846	Seq. ID	OJ000112_10.0426.C12
Gene No.	115017	Strand	-
Start	3887	End	5425
Name	OJ000112_10.0426.C12.o1.gp	Method	AAT/GAP
Start	3649	End	4272
GI	3766623	Score	1211
Exons	3649..4272		

Seq. No.	54846	Seq. ID	OJ000112_10.0426.C12
Gene No.	115017	Strand	-
Start	3887	End	5425
Name	OJ000112_10.0426.C12.o2.gs	Method	GENSCAN
Start	3887	End	5425
GI	none	Score	.91
Exons	3887..5425		

Seq. No.	54846	Seq. ID	OJ000112_10.0426.C12
Gene No.	115018	Strand	-
Start	5354	End	8674
Name	OJ000112_10.0426.C12.o2.tm	Method	TBLASTX:Maize
Start	585	End	7488
GI	none	Score	42
Exons	585..662, 680..910, 687..914, 696..836, 698..913, 4010..4360, 4020..4361, 7327..7488		

Seq. No.	54846	Seq. ID	OJ000112_10.0426.C12
Gene No.	115018	Strand	-
Start	5354	End	8674
Name	OJ000112_10.0426.C12.o1.tm	Method	TBLASTX:Maize
Start	1499	End	8674
GI	none	Score	52
Exons	1499..1633, 1505..1690, 1518..1721, 1654..1800, 1739..1801, 1757..1909, 1794..1901, 1907..1984, 1919..1987, 4928..5245, 4968..5138, 4990..5250, 5198..5341, 5236..5358, 5238..5330, 5246..5332, 5324..5431, 5342..5440, 8170..8292, 8182..8280, 8485..8601, 8486..8578, 8639..8674		

Seq. No.	54846	Seq. ID	OJ000112_10.0426.C12
Gene No.	115018	Strand	-
Start	5354	End	8674
Name	OJ000112_10.0426.C12.o2.gp	Method	AAT/GAP
Start	5354	End	5622
GI	2443122	Score	530
Exons	5354..5622		

Seq. No.	54847	Seq. ID	OJ000112_10.0426.C13
Gene No.	115019	Strand	+
Start	227	End	1842
Name	OJ000112_10.0426.C13.o1.gs	Method	GENSCAN
Start	227	End	1842
GI	none	Score	.77

Exons	227..364, 545..722, 912..1012, 1458..1519, 1610..1709, 1825..1842		
Seq. No.	54847	Seq. ID	OJ000112_10.0426.C13
Gene No.	115019	Strand	+
Start	227	End	1842
Name	OJ000112_10.0426.C13.o1.tm	Method	TBLASTX:Maize
Start	227	End	902
GI	none	Score	59
Exons	227..289, 242..304, 320..370, 321..362, 545..901, 556..870, 570..902		
Seq. No.	54848	Seq. ID	OJ000112_10.0426.C14
Gene No.	115020	Strand	+
Start	1054	End	1679
Name	OJ000112_10.0426.C14.o1.gp	Method	AAT/GAP
Start	1054	End	1548
GI	20636_1.R1084	Score	914
Exons	1054..1548		
GI Descrip.	'4337175/gb|AAD18096| 7.0e-19 (AC006416) ESTs gb_T20589, gb_T04648, gb_AA597906, gb_T04111, gb_R84180, gb_R65428, gb_T44439, gb_T76570, gb_R90004, gb_T45020, gb_T42457, gb_T20921, gb_AA042762 and gb_AA720210 come from this gene. [Arabidopsis thaliana]'		
Seq. No.	54848	Seq. ID	OJ000112_10.0426.C14
Gene No.	115020	Strand	+
Start	1054	End	1679
Name	OJ000112_10.0426.C14.o1.np	Method	AAT/NAP
Start	1156	End	1679
GI	4337175	Score	299
Exons	1156..1679		
GI Descrip.	(AC006416) ESTs gb|T20589, gb|T04648, gb|AA597906, gb|T04111, gb|R84180, gb|R65428, gb|T44439, gb|T76570, gb|R90004, gb|T45020, gb|T42457, gb|T20921, gb|AA042762 and gb|AA720210 come from this gene. [Arabidopsis thaliana]		
Seq. No.	54848	Seq. ID	OJ000112_10.0426.C14
Gene No.	115020	Strand	+
Start	1054	End	1679
Name	OJ000112_10.0426.C14.o1.tm	Method	TBLASTX:Maize
Start	1168	End	1511
GI	none	Score	58
Exons	1168..1206, 1170..1226, 1282..1335, 1282..1332, 1341..1379, 1341..1451, 1375..1452, 1402..1452, 1452..1502, 1455..1511		
Seq. No.	54848	Seq. ID	OJ000112_10.0426.C14
Gene No.	115020	Strand	+
Start	1054	End	1679
Name	OJ000112_10.0426.C14.o1.ts	Method	TBLASTX:Soybean
Start	1282	End	1580
GI	none	Score	69
Exons	1282..1338, 1338..1454, 1381..1452, 1452..1580		
Seq. No.	54848	Seq. ID	OJ000112_10.0426.C14
Gene No.	115020	Strand	+
Start	1054	End	1679

Name	OJ000112_10.0426.C14.o1.tw	Method	TBLASTX:Wheat
Start	1282	End	1570
GI	none	Score	76
Exons	1282..1338, 1282..1329, 1338..1454, 1381..1452, 1446..1568, 1505..1570		

Seq. No.	54849	Seq. ID	OJ000112_10.0426.C15
Gene No.	115021	Strand	+
Start	50	End	2222
Name	OJ000112_10.0426.C15.o1.gs	Method	GENSCAN
Start	50	End	2222
GI	none	Score	.97
Exons	50..800, 939..1094, 2203..2222		

Seq. No.	54849	Seq. ID	OJ000112_10.0426.C15
Gene No.	115022	Strand	-
Start	1223	End	1282
Name	OJ000112_10.0426.C15.o1.tm	Method	TBLASTX:Maize
Start	61	End	388
GI	none	Score	237
Exons	61..237, 62..247, 344..388		

Seq. No.	54849	Seq. ID	OJ000112_10.0426.C15
Gene No.	115022	Strand	-
Start	1223	End	1282
Name	OJ000112_10.0426.C15.o2.tm	Method	TBLASTX:Maize
Start	494	End	850
GI	none	Score	58
Exons	494..568, 534..686, 575..760, 575..724, 775..849, 776..850		

Seq. No.	54849	Seq. ID	OJ000112_10.0426.C15
Gene No.	115022	Strand	-
Start	1223	End	1282
Name	OJ000112_10.0426.C15.o1.gp	Method	AAT/GAP
Start	1223	End	1282
GI	LIB3477-003-P1-K1-E9	Score	77
Exons	1223..1282		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	54850	Seq. ID	OJ000112_10.0426.C16
Gene No.	115023	Strand	+
Start	1314	End	4406
Name	OJ000112_10.0426.C16.o1.gs	Method	GENSCAN
Start	1314	End	1742
GI	none	Score	.99
Exons	1314..1742		

Seq. No.	54850	Seq. ID	OJ000112_10.0426.C16
Gene No.	115023	Strand	+
Start	1314	End	4406
Name	OJ000112_10.0426.C16.o1.np	Method	AAT/NAP
Start	1314	End	2700
GI	4337175	Score	338
Exons	1314..1738, 2583..2700		
GI Descrip.	(AC006416) ESTs gb|T20589, gb|T04648, gb|AA597906, gb|T04111,		

gb|R84180, gb|R65428, gb|T44439, gb|T76570, gb|R90004, gb|T45020, gb|T42457, gb|T20921, gb|AA042762 and gb|AA720210 come from this gene. [Arabidopsis thaliana]

Seq. No.	54850	Seq. ID	OJ000112_10.0426.C16
Gene No.	115023	Strand	+
Start	1314	End	4406
Name	OJ000112_10.0426.C16.o2.gs	Method	GENSCAN
Start	2229	End	4406
GI	none	Score	.75
Exons	2229..3294, 4309..4406		

Seq. No.	54850	Seq. ID	OJ000112_10.0426.C16
Gene No.	115024	Strand	+
Start	5175	End	5603
Name	OJ000112_10.0426.C16.o3.gs	Method	GENSCAN
Start	5175	End	5603
GI	none	Score	.98
Exons	5175..5603		

Seq. No.	54850	Seq. ID	OJ000112_10.0426.C16
Gene No.	115025	Strand	+
Start	6980	End	8806
Name	OJ000112_10.0426.C16.o4.gs	Method	GENSCAN
Start	6980	End	8600
GI	none	Score	.67
Exons	6980..8051, 8584..8600		

Seq. No.	54850	Seq. ID	OJ000112_10.0426.C16
Gene No.	115025	Strand	+
Start	6980	End	8806
Name	OJ000112_10.0426.C16.o1.gp	Method	AAT/GAP
Start	7182	End	7488
GI	3761565	Score	597
Exons	7182..7488		

Seq. No.	54850	Seq. ID	OJ000112_10.0426.C16
Gene No.	115025	Strand	+
Start	6980	End	8806
Name	OJ000112_10.0426.C16.o2.gp	Method	AAT/GAP
Start	8440	End	8806
GI	3761566	Score	639
Exons	8440..8806		

Seq. No.	54850	Seq. ID	OJ000112_10.0426.C16
Gene No.	115026	Strand	+
Start	9843	End	11630
Name	OJ000112_10.0426.C16.o2.np	Method	AAT/NAP
Start	9833	End	10610
GI	7487169	Score	263
Exons	9833..10267, 10574..10610		
GI Descrip.	hypothetical protein T19F6.120 - Arabidopsis thaliana gi|2262104|gb|AAB63612.1| (AC002343) unknown protein [Arabidopsis thaliana] gi|5668641|emb|CAB51656.1| (AL109619) putative protein [Arabidopsis thaliana] gi|7269262|emb|CAB81331.1| (AL161560) putative protein [Arabidopsis thaliana]		

Seq. No.	54850	Seq. ID	OJ000112_10.0426.C16
Gene No.	115026	Strand	+
Start	9843	End	11630
Name	OJ000112_10.0426.C16.o5.gs	Method	GENSCAN
Start	9843	End	11630
GI	none	Score	.93
Exons	9843..10263, 10656..10672, 10771..11029, 11069..11417, 11465..11630		

Seq. No.	54850	Seq. ID	OJ000112_10.0426.C16
Gene No.	115027	Strand	-
Start	12733	End	12865
Name	OJ000112_10.0426.C16.o1.tm	Method	TBLASTX:Maize
Start	1326	End	10199
GI	none	Score	52
Exons	1326..1364, 1349..1501, 1353..1460, 1499..1537, 1499..1669, 1533..1670, 5186..5224, 5194..5343, 5195..5362, 5214..5351, 5222..5362, 5360..5398, 5360..5530, 5394..5531, 9854..9913, 9855..9893, 9874..10020, 9878..10030, 9882..10019, 9890..10030, 10013..10192, 10028..10198, 10062..10199		

Seq. No.	54850	Seq. ID	OJ000112_10.0426.C16
Gene No.	115027	Strand	-
Start	12733	End	12865
Name	OJ000112_10.0426.C16.o1.tw	Method	TBLASTX:Wheat
Start	1389	End	10282
GI	none	Score	76
Exons	1389..1460, 1440..1496, 1496..1729, 1539..1727, 5254..5325, 5255..5359, 5303..5359, 5357..5545, 5400..5570, 9918..10016, 9969..10022, 10013..10228, 10022..10282, 10068..10256		

Seq. No.	54850	Seq. ID	OJ000112_10.0426.C16
Gene No.	115027	Strand	-
Start	12733	End	12865
Name	OJ000112_10.0426.C16.o2.ts	Method	TBLASTX:Soybean
Start	1419	End	10268
GI	none	Score	74
Exons	1419..1460, 1440..1496, 1496..1729, 1539..1739, 5280..5348, 5301..5357, 5357..5467, 5400..5570, 9875..10027, 9969..10022, 10025..10258, 10068..10268		

Seq. No.	54850	Seq. ID	OJ000112_10.0426.C16
Gene No.	115027	Strand	-
Start	12733	End	12865
Name	OJ000112_10.0426.C16.o1.tc	Method	TBLASTX:Cress
Start	1440	End	10268
GI	none	Score	65
Exons	1440..1496, 1496..1612, 1539..1658, 1656..1739, 5256..5348, 5301..5357, 5357..5464, 5400..5519, 5514..5570, 9969..10022, 9971..10036, 10025..10132, 10068..10178, 10182..10268		

Seq. No.	54850	Seq. ID	OJ000112_10.0426.C16
Gene No.	115027	Strand	-
Start	12733	End	12865
Name	OJ000112_10.0426.C16.o3.tm	Method	TBLASTX:Maize
Start	2243	End	7324

GI	none	Score	246
Exons	2243..2416, 2244..2429, 2538..2582, 6920..7180, 7037..7177, 7280..7324		

Seq. No.	54850	Seq. ID	OJ000112_10.0426.C16
Gene No.	115027	Strand	-
Start	12733	End	12865
Name	OJ000112_10.0426.C16.o4.tm	Method	TBLASTX:Maize
Start	2705	End	7801
GI	none	Score	72
Exons	2705..2761, 2706..2762, 2730..2960, 2730..2951, 2732..2953, 2973..3047, 7453..7488, 7454..7498, 7454..7666, 7516..7629, 7516..7800, 7517..7801		

Seq. No.	54850	Seq. ID	OJ000112_10.0426.C16
Gene No.	115027	Strand	-
Start	12733	End	12865
Name	OJ000112_10.0426.C16.o5.tm	Method	TBLASTX:Maize
Start	3065	End	8188
GI	none	Score	122
Exons	3065..3253, 3066..3254, 3258..3290, 7820..8047, 7843..7998, 7869..8051, 8105..8188		

Seq. No.	54850	Seq. ID	OJ000112_10.0426.C16
Gene No.	115027	Strand	-
Start	12733	End	12865
Name	OJ000112_10.0426.C16.o1.ts	Method	TBLASTX:Soybean
Start	10901	End	11501
GI	none	Score	69
Exons	10901..10975, 10912..10971, 11067..11141, 11068..11127, 11181..11261, 11185..11262, 11299..11346, 11320..11394, 11351..11413, 11421..11501, 11426..11488		

Seq. No.	54850	Seq. ID	OJ000112_10.0426.C16
Gene No.	115027	Strand	-
Start	12733	End	12865
Name	OJ000112_10.0426.C16.o2.tm	Method	TBLASTX:Maize
Start	10921	End	11382
GI	none	Score	74
Exons	10921..10968, 10922..10975, 11070..11132, 11071..11127, 11153..11218, 11185..11262, 11187..11261, 11299..11346, 11302..11346, 11315..11347, 11350..11382, 11351..11380		

Seq. No.	54850	Seq. ID	OJ000112_10.0426.C16
Gene No.	115027	Strand	-
Start	12733	End	12865
Name	OJ000112_10.0426.C16.o6.gs	Method	GENSCAN
Start	12733	End	12865
GI	none	Score	.78
Exons	12733..12865		

Seq. No.	54851	Seq. ID	OJ000112_10.0426.C17
Gene No.	115028	Strand	+
Start	204	End	322
Name	OJ000112_10.0426.C17.o1.gs	Method	GENSCAN
Start	204	End	322
GI	none	Score	.66

Exons	204..322		

Seq. No.	54851	Seq. ID	OJ000112_10.0426.C17
Gene No.	115029	Strand	+
Start	1042	End	10383
Name	OJ000112_10.0426.C17.o1.np	Method	AAT/NAP
Start	1042	End	2249
GI	4337175	Score	307
Exons	1042..1466, 2130..2249		
GI Descrip.	(AC006416) ESTs gb|T20589, gb|T04648, gb|AA597906, gb|T04111, gb|R84180, gb|R65428, gb|T44439, gb|T76570, gb|R90004, gb|T45020, gb|T42457, gb|T20921, gb|AA042762 and gb|AA720210 come from this gene. [Arabidopsis thaliana]		

Seq. No.	54851	Seq. ID	OJ000112_10.0426.C17
Gene No.	115029	Strand	+
Start	1042	End	10383
Name	OJ000112_10.0426.C17.o2.gs	Method	GENSCAN
Start	1042	End	10383
GI	none	Score	.63
Exons	1042..1466, 1669..1693, 2060..2228, 2804..2885, 5046..5089, 6380..6522, 6957..7098, 7269..7455, 7590..7748, 8441..8748, 9248..9298, 9834..9994, 10204..10383		

Seq. No.	54851	Seq. ID	OJ000112_10.0426.C17
Gene No.	115029	Strand	+
Start	1042	End	10383
Name	OJ000112_10.0426.C17.o2.np	Method	AAT/NAP
Start	9509	End	9937
GI	7340884	Score	121
Exons	9509..9648, 9891..9937		
GI Descrip.	(AP001551) Similar to Antirrhinum majus transposon Tam3 gene for transposase. (AB013982) [Oryza sativa]		

Seq. No.	54851	Seq. ID	OJ000112_10.0426.C17
Gene No.	115030	Strand	+
Start	14238	End	16749
Name	OJ000112_10.0426.C17.o5.gs	Method	GENSCAN
Start	14238	End	16749
GI	none	Score	.66
Exons	14238..14438, 15467..15552, 15603..15691, 16059..16146, 16521..16749		

Seq. No.	54851	Seq. ID	OJ000112_10.0426.C17
Gene No.	115031	Strand	+
Start	17411	End	19297
Name	OJ000112_10.0426.C17.o6.gs	Method	GENSCAN
Start	17411	End	19297
GI	none	Score	.75
Exons	17411..17468, 18197..18375, 19199..19297		

Seq. No.	54851	Seq. ID	OJ000112_10.0426.C17
Gene No.	115032	Strand	-
Start	10068	End	10970
Name	OJ000112_10.0426.C17.o3.np	Method	AAT/NAP
Start	10068	End	10967
GI	4337175	Score	328

Exons	10068..10185, 10543..10967		
GI Descrip.	(AC006416) ESTs gb|T20589, gb|T04648, gb|AA597906, gb|T04111, gb|R84180, gb|R65428, gb|T44439, gb|T76570, gb|R90004, gb|T45020, gb|T42457, gb|T20921, gb|AA042762 and gb|AA720210 come from this gene. [Arabidopsis thaliana]		
Seq. No.	54851	Seq. ID	OJ000112_10.0426.C17
Gene No.	115032	Strand	-
Start	10068	End	10970
Name	OJ000112_10.0426.C17.o3.gs	Method	GENSCAN
Start	10539	End	10970
GI	none	Score	1
Exons	10539..10970		
Seq. No.	54851	Seq. ID	OJ000112_10.0426.C17
Gene No.	115033	Strand	-
Start	12454	End	15814
Name	OJ000112_10.0426.C17.o4.gs	Method	GENSCAN
Start	12454	End	13890
GI	none	Score	.53
Exons	12454..12640, 13547..13890		
Seq. No.	54851	Seq. ID	OJ000112_10.0426.C17
Gene No.	115033	Strand	-
Start	12454	End	15814
Name	OJ000112_10.0426.C17.o5.np	Method	AAT/NAP
Start	13515	End	13897
GI	2464865	Score	223
Exons	13515..13897		
GI Descrip.	(Z99707) pectinesterase like protein [Arabidopsis thaliana]		
Seq. No.	54851	Seq. ID	OJ000112_10.0426.C17
Gene No.	115033	Strand	-
Start	12454	End	15814
Name	OJ000112_10.0426.C17.o4.np	Method	AAT/NAP
Start	13547	End	15814
GI	7432997	Score	216
Exons	13547..13900, 15671..15814		
GI Descrip.	pollen-specific protein homolog - tomato (fragment) gi|1944575|emb|CAB08077.1| (Z94058) pectinesterase [Lycopersicon esculentum]		
Seq. No.	54851	Seq. ID	OJ000112_10.0426.C17
Gene No.	115034	Strand	-
Start	20205	End	22556
Name	OJ000112_10.0426.C17.o2.tm	Method	TBLASTX:Maize
Start	1033	End	11061
GI	none	Score	67
Exons	1033..1113, 1053..1112, 1098..1229, 1112..1189, 1227..1397, 1261..1398, 10611..10748, 10612..10782, 10744..10782, 10788..10841, 10794..10919, 10817..10918, 10896..10973, 10897..10977, 11038..11061		
Seq. No.	54851	Seq. ID	OJ000112_10.0426.C17
Gene No.	115034	Strand	-
Start	20205	End	22556
Name	OJ000112_10.0426.C17.o3.tc	Method	TBLASTX:Cress

Start	1041	End	10952
GI	none	Score	57
Exons	1041..1112, 1057..1116, 1168..1224, 1224..1370, 1267..1386, 1384..1440, 10542..10625, 10623..10742, 10785..10841, 10893..10952		

Seq. No.	54851	Seq. ID	OJ000112_10.0426.C17
Gene No.	115034	Strand	-
Start	20205	End	22556
Name	OJ000112_10.0426.C17.o2.ts	Method	TBLASTX:Soybean
Start	1066	End	10841
GI	none	Score	52
Exons	1066..1116, 1150..1203, 1168..1224, 1224..1514, 1267..1440, 10542..10742, 10785..10841		

Seq. No.	54851	Seq. ID	OJ000112_10.0426.C17
Gene No.	115034	Strand	-
Start	20205	End	22556
Name	OJ000112_10.0426.C17.o2.tw	Method	TBLASTX:Wheat
Start	1168	End	10892
GI	none	Score	79
Exons	1168..1224, 1170..1226, 1224..1439, 1261..1440, 10552..10785, 10554..10742, 10785..10841, 10794..10892, 10817..10888		

Seq. No.	54851	Seq. ID	OJ000112_10.0426.C17
Gene No.	115034	Strand	-
Start	20205	End	22556
Name	OJ000112_10.0426.C17.o1.tm	Method	TBLASTX:Maize
Start	13546	End	22545
GI	none	Score	114
Exons	13546..13650, 13701..13778, 13787..13897, 13792..13896, 13823..13897, 20285..20479, 20285..20479, 20302..20481, 20914..20991, 21125..21229, 21293..21520, 21348..21521, 21572..21850, 21681..21851, 21944..22342, 21966..22334, 22468..22545		

Seq. No.	54851	Seq. ID	OJ000112_10.0426.C17
Gene No.	115034	Strand	-
Start	20205	End	22556
Name	OJ000112_10.0426.C17.o1.ts	Method	TBLASTX:Soybean
Start	13546	End	22551
GI	none	Score	115
Exons	13546..13659, 13547..13660, 13698..13778, 13784..13879, 13792..13896, 20288..20479, 20302..20481, 20914..20994, 21105..21197, 21119..21214, 21125..21523, 21126..21239, 21348..21518, 21623..21859, 21687..21854, 21938..22327, 21966..22001, 22038..22328, 22110..22331, 22441..22551		

Seq. No.	54851	Seq. ID	OJ000112_10.0426.C17
Gene No.	115034	Strand	-
Start	20205	End	22556
Name	OJ000112_10.0426.C17.o2.tc	Method	TBLASTX:Cress
Start	13546	End	21478
GI	none	Score	77
Exons	13546..13656, 13680..13781, 13784..13900, 13795..13896, 20285..20479, 20302..20481, 20914..20985, 21125..21478		

Seq. No.	54851	Seq. ID	OJ000112_10.0426.C17
Gene No.	115034	Strand	-
Start	20205	End	22556
Name	OJ000112_10.0426.C17.o1.gp	Method	AAT/GAP
Start	20065	End	20947
GI	51386_1.R1084	Score	846
Exons	20065..20478, 20917..20947		
GI Descrip.	'5263337/gb|AAD41439.1|AC007727_28 9.0e-22 (AC007727) Strong similarity to gb_X96932 ascorbate oxidase-related protein PS60 from Nicotiana tabacum and is a member of the PF_00394 Multicopper oxidase family. This gene is cut off. [Arabidopsis thaliana]'		

Seq. No.	54851	Seq. ID	OJ000112_10.0426.C17
Gene No.	115034	Strand	-
Start	20205	End	22556
Name	OJ000112_10.0426.C17.o7.gs	Method	GENSCAN
Start	20205	End	22330
GI	none	Score	.9
Exons	20205..20296, 20301..20478, 20917..20995, 21126..22330		

Seq. No.	54851	Seq. ID	OJ000112_10.0426.C17
Gene No.	115034	Strand	-
Start	20205	End	22556
Name	OJ000112_10.0426.C17.o6.np	Method	AAT/NAP
Start	20267	End	22556
GI	2961346	Score	1491
Exons	20267..20478, 20917..20995, 21126..22330, 22456..22556		
GI Descrip.	(AL022140) pectinesterase like protein [Arabidopsis thaliana]		

Seq. No.	54851	Seq. ID	OJ000112_10.0426.C17
Gene No.	115034	Strand	-
Start	20205	End	22556
Name	OJ000112_10.0426.C17.o1.tw	Method	TBLASTX:Wheat
Start	20289	End	20985
GI	none	Score	170
Exons	20289..20390, 20291..20479, 20302..20481, 20914..20985		

Seq. No.	54851	Seq. ID	OJ000112_10.0426.C17
Gene No.	115034	Strand	-
Start	20205	End	22556
Name	OJ000112_10.0426.C17.o1.tc	Method	TBLASTX:Cress
Start	21440	End	22530
GI	none	Score	108
Exons	21440..21460, 21479..21529, 21623..21886, 21693..21887, 21941..22342, 21966..22331, 22441..22530		

Seq. No.	54851	Seq. ID	OJ000112_10.0426.C17
Gene No.	115034	Strand	-
Start	20205	End	22556
Name	OJ000112_10.0426.C17.o2.gp	Method	AAT/GAP
Start	22108	End	22556
GI	48688_1.R1084	Score	634
Exons	22108..22330, 22453..22556		
GI Descrip.	'128592/sp|P29162|NTP3_TOBAC 5.0e-42 POLLEN-SPECIFIC PROTEIN NTP303 PRECURSOR >gi_82190_pir__S22495 pollen-specific protein precursor - common tobacco >gi_19902_emb_CAA43454_ (X61146)		

pollen specific protein [Nicotiana tabacum]'

Seq. No.	54852	Seq. ID	OJ000112_10.0426.C18
Gene No.	115035	Strand	-
Start	1	End	109
Name	OJ000112_10.0426.C18.o1.gp	Method	AAT/GAP
Start	1	End	109
GI	48688_1.R1084	Score	178
Exons	1..109		
GI Descrip.	'128592/sp|P29162|NTP3_TOBAC 5.0e-42 POLLEN-SPECIFIC PROTEIN NTP303 PRECURSOR >gi_82190_pir__S22495 pollen-specific protein precursor - common tobacco >gi_19902_emb_CAA43454_ (X61146) pollen specific protein [Nicotiana tabacum]'		

Seq. No.	54852	Seq. ID	OJ000112_10.0426.C18
Gene No.	115036	Strand	-
Start	6918	End	9311
Name	OJ000112_10.0426.C18.o2.np	Method	AAT/NAP
Start	6918	End	9234
GI	4335773	Score	218
Exons	6918..6941, 7840..7999, 8099..8175, 8321..8633, 8744..8972, 9007..9234		
GI Descrip.	(AC006284) unknown protein [Arabidopsis thaliana]		

Seq. No.	54852	Seq. ID	OJ000112_10.0426.C18
Gene No.	115036	Strand	-
Start	6918	End	9311
Name	OJ000112_10.0426.C18.o2.gp	Method	AAT/GAP
Start	7438	End	8175
GI	none	Score	1131
Exons	7438..7966, 8099..8175		

Seq. No.	54852	Seq. ID	OJ000112_10.0426.C18
Gene No.	115036	Strand	-
Start	6918	End	9311
Name	OJ000112_10.0426.C18.o2.gs	Method	GENSCAN
Start	7733	End	9258
GI	none	Score	.77
Exons	7733..7966, 8099..8175, 8321..8711, 8802..8956, 9048..9258		

Seq. No.	54852	Seq. ID	OJ000112_10.0426.C18
Gene No.	115036	Strand	-
Start	6918	End	9311
Name	OJ000112_10.0426.C18.o1.np	Method	AAT/NAP
Start	7840	End	9234
GI	4335773	Score	217
Exons	7840..7999, 8099..8175, 8321..8633, 8744..8972, 9007..9234		
GI Descrip.	(AC006284) unknown protein [Arabidopsis thaliana]		

Seq. No.	54852	Seq. ID	OJ000112_10.0426.C18
Gene No.	115036	Strand	-
Start	6918	End	9311
Name	OJ000112_10.0426.C18.o3.gp	Method	AAT/GAP
Start	8569	End	9311
GI	none	Score	1076
Exons	8569..8711, 8802..8956, 9048..9311		

Seq. No.	54853	Seq. ID	OJ000112_10.0426.C19
Gene No.	115037	Strand	-
Start	1693	End	3219
Name	OJ000112_10.0426.C19.o1.gs	Method	GENSCAN
Start	1693	End	3219
GI	none	Score	.76
Exons	1693..1937, 3129..3219		

Seq. No.	54854	Seq. ID	OJ000112_10.0426.C22
Gene No.	115038	Strand	-
Start	2246	End	2270
Name	OJ000112_10.0426.C22.o1.gs	Method	GENSCAN
Start	2246	End	2270
GI	none	Score	.5
Exons	2246..2270		

Seq. No.	54855	Seq. ID	OJ000112_10.0426.C23
Gene No.	115039	Strand	-
Start	2870	End	2967
Name	OJ000112_10.0426.C23.o1.np	Method	AAT/NAP
Start	2870	End	2967
GI	5852084	Score	70
Exons	2870..2967		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	54856	Seq. ID	OJ000112_13.0426.C1
Gene No.	115040	Strand	+
Start	12585	End	12681
Name	OJ000112_13.0426.C1.o5.gp	Method	AAT/GAP
Start	12585	End	12681
GI	69953_1.R1084	Score	122
Exons	12585..12681		
GI Descrip.	'5295936/dbj|AB026295.2|AB026295 7.0e-34 Oryza sativa genomic DNA, chromosome 6, clone:P0681F10, complete sequence'		

Seq. No.	54856	Seq. ID	OJ000112_13.0426.C1
Gene No.	115041	Strand	-
Start	78	End	2619
Name	OJ000112_13.0426.C1.o1.gp	Method	AAT/GAP
Start	78	End	1389
GI	LIB3432-036-P2-K1-F9	Score	903
Exons	78..227, 337..381, 466..517, 591..665, 748..784, 900..968, 1292..1389		
GI Descrip.	'3075389 9.0e-24 (AC004484) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	54856	Seq. ID	OJ000112_13.0426.C1
Gene No.	115041	Strand	-
Start	78	End	2619
Name	OJ000112_13.0426.C1.o1.gs	Method	GENSCAN
Start	127	End	2619
GI	none	Score	.87
Exons	127..227, 337..428, 1292..1394, 1497..1572, 1773..1983, 2105..2619		

Seq. No.	54856	Seq. ID	OJ000112_13.0426.C1
Gene No.	115041	Strand	-

Start	78	End	2619
Name	OJ000112_13.0426.C1.o1.np	Method	AAT/NAP
Start	335	End	1407
GI	3075389	Score	190
Exons	335..381, 466..517, 748..784, 900..968, 1292..1407		
GI Descrip.	(AC004484) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	54856	Seq. ID	OJ000112_13.0426.C1
Gene No.	115042	Strand	-
Start	6072	End	9291
Name	OJ000112_13.0426.C1.o2.gp	Method	AAT/GAP
Start	6072	End	7484
GI	none	Score	909
Exons	6072..6350, 6905..6963, 7065..7136, 7387..7484		

Seq. No.	54856	Seq. ID	OJ000112_13.0426.C1
Gene No.	115042	Strand	-
Start	6072	End	9291
Name	OJ000112_13.0426.C1.o2.np	Method	AAT/NAP
Start	7062	End	9031
GI	6683811	Score	801
Exons	7062..7136, 7387..7494, 7598..7678, 7845..8001, 8151..8268, 8455..8506, 8993..9031		
GI Descrip.	(AF187062) UMP/CMP kinase a [Oryza sativa]		

Seq. No.	54856	Seq. ID	OJ000112_13.0426.C1
Gene No.	115042	Strand	-
Start	6072	End	9291
Name	OJ000112_13.0426.C1.o3.gp	Method	AAT/GAP
Start	7841	End	9291
GI	103206_1.R1084	Score	802
Exons	7841..8001, 8151..8268, 8455..8509, 8987..9033, 9215..9291		
GI Descrip.	'2497486/sp|O04905|UMPK_ARATH 1.0e-31 URIDYLATE KINASE (UK) (URIDINE MONOPHOSPHATE KINASE) (UMP KINASE) >gi_212175 (AF000147) UMP/CMP kinase [Arabidopsis thaliana]'		

Seq. No.	54856	Seq. ID	OJ000112_13.0426.C1
Gene No.	115043	Strand	-
Start	9335	End	25067
Name	OJ000112_13.0426.C1.o3.gs	Method	GENSCAN
Start	9335	End	24328
GI	none	Score	.86
Exons	9335..9735, 9853..9914, 10610..10704, 10943..11005, 11118..11210, 11589..11648, 11787..11849, 12108..12189, 12735..12837, 13677..13743, 14389..14476, 15012..15454, 16205..16438, 16512..16691, 17032..17212, 17405..17478, 17979..18104, 18491..18655, 18731..18858, 19198..19326, 19970..20101, 20898..21045, 21478..21614, 21712..21998, 22089..22320, 22904..23048, 23516..23623, 23955..24023, 24216..24328		

Seq. No.	54856	Seq. ID	OJ000112_13.0426.C1
Gene No.	115043	Strand	-
Start	9335	End	25067
Name	OJ000112_13.0426.C1.o4.gp	Method	AAT/GAP
Start	10535	End	11660
GI	60045_1.R1084	Score	965

Exons	10535..10867, 10943..11005, 11118..11210, 11589..11660
GI Descrip.	'4388730/gb|AAD19768| 1.0e-16 (AC006413) hypothetical protein [Arabidopsis thaliana]'

Seq. No.	54856	Seq. ID	OJ000112_13.0426.C1
Gene No.	115043	Strand	-
Start	9335	End	25067
Name	OJ000112_13.0426.C1.o3.np	Method	AAT/NAP
Start	11092	End	12230
GI	4388730	Score	266
Exons	11092..11210, 11589..11648, 11787..11849, 12108..12230		
GI Descrip.	(AC006413) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	54856	Seq. ID	OJ000112_13.0426.C1
Gene No.	115043	Strand	-
Start	9335	End	25067
Name	OJ000112_13.0426.C1.o6.gp	Method	AAT/GAP
Start	16135	End	16689
GI	uC-osflcyp106b12b1	Score	882
Exons	16135..16438, 16512..16689		
GI Descrip.	'1174521/sp|P41972|SYI_STAAU 9.0e-13 ISOLEUCYL-TRNA SYNTHETASE (ISOLEUCINE--TRNA LIGASE) (ILERS) >gi_541337_pir__S40178 isoleucine--tRNA ligase (EC 6.1.1.5) - Staphylococcus aureus >gi_437916_emb_CAA52296_ (X74219) isoleucyl-tRNA synthetase [Staphylococcus aureus]'		

Seq. No.	54856	Seq. ID	OJ000112_13.0426.C1
Gene No.	115043	Strand	-
Start	9335	End	25067
Name	OJ000112_13.0426.C1.o4.np	Method	AAT/NAP
Start	16223	End	25067
GI	2501011	Score	2164
Exons	16223..16700, 17074..17281, 17405..17478, 17979..18104, 18491..18655, 18731..18858, 19198..19326, 19970..20101, 20898..21045, 21478..21614, 21712..21998, 22089..22202, 22263..22320, 22904..23048, 23516..23623, 23955..24023, 24216..24328, 24477..24546, 24978..25067		
GI Descrip.	ISOLEUCYL-TRNA SYNTHETASE (ISOLEUCINE--TRNA LIGASE) (ILERS) gi|1652625|dbj|BAA17545| (D90907) isoleucyl-tRNA synthetase [Synechocystis sp.]		

Seq. No.	54856	Seq. ID	OJ000112_13.0426.C1
Gene No.	115043	Strand	-
Start	9335	End	25067
Name	OJ000112_13.0426.C1.o7.gp	Method	AAT/GAP
Start	23517	End	24560
GI	uC-osflcyp019h01b1	Score	647
Exons	23517..23623, 23955..24023, 24216..24328, 24477..24560		
GI Descrip.	'2501011/sp|P73505|SYI_SYNY3 4.0e-43 ISOLEUCYL-TRNA SYNTHETASE (ISOLEUCINE--TRNA LIGASE) (ILERS) >gi_1652625_dbj_BAA17545_ (D90907) isoleucyl-tRNA synthetase [Synechocystis sp.]'		

Seq. No.	54856	Seq. ID	OJ000112_13.0426.C1
Gene No.	115044	Strand	-
Start	25008	End	25067
Name	OJ000112_13.0426.C1.o3.tm	Method	TBLASTX:Maize
Start	54	End	957

GI	none	Score	41
Exons	54..101, 72..98, 119..226, 126..221, 133..225, 336..380, 336..383, 337..381, 337..387, 465..518, 466..525, 467..517, 591..668, 594..671, 733..795, 749..796, 899..955, 907..957		

Seq. No.	54856	Seq. ID	OJ000112_13.0426.C1
Gene No.	115044	Strand	-
Start	25008	End	25067
Name	OJ000112_13.0426.C1.o6.tm	Method	TBLASTX:Maize
Start	1291	End	1994
GI	none	Score	118
Exons	1291..1395, 1291..1392, 1292..1393, 1293..1397, 1494..1559, 1496..1573, 1498..1575, 1498..1599, 1758..1922, 1771..1905, 1772..1924, 1950..1994, 1951..1992		

Seq. No.	54856	Seq. ID	OJ000112_13.0426.C1
Gene No.	115044	Strand	-
Start	25008	End	25067
Name	OJ000112_13.0426.C1.o1.tm	Method	TBLASTX:Maize
Start	2248	End	2611
GI	none	Score	460
Exons	2248..2610, 2252..2611		

Seq. No.	54856	Seq. ID	OJ000112_13.0426.C1
Gene No.	115044	Strand	-
Start	25008	End	25067
Name	OJ000112_13.0426.C1.o5.tm	Method	TBLASTX:Maize
Start	6130	End	8518
GI	none	Score	70
Exons	6130..6159, 6213..6296, 6217..6291, 6231..6293, 7066..7137, 7066..7137, 7071..7139, 7071..7139, 7073..7144, 7382..7495, 7384..7497, 7387..7497, 7596..7676, 7597..7674, 7598..7678, 7599..7679, 7833..8000, 7834..8001, 7879..8001, 8141..8269, 8142..8270, 8152..8271, 8452..8508, 8453..8515, 8453..8518		

Seq. No.	54856	Seq. ID	OJ000112_13.0426.C1
Gene No.	115044	Strand	-
Start	25008	End	25067
Name	OJ000112_13.0426.C1.o1.tw	Method	TBLASTX:Wheat
Start	6140	End	7905
GI	none	Score	45
Exons	6140..6169, 6230..6265, 6232..6258, 6307..6342, 6308..6340, 6921..6965, 7072..7104, 7074..7106, 7111..7137, 7113..7142, 7382..7504, 7384..7497, 7596..7676, 7597..7677, 7598..7678, 7602..7679, 7833..7904, 7834..7905		

Seq. No.	54856	Seq. ID	OJ000112_13.0426.C1
Gene No.	115044	Strand	-
Start	25008	End	25067
Name	OJ000112_13.0426.C1.o2.tc	Method	TBLASTX:Cress
Start	7045	End	7982
GI	none	Score	77
Exons	7045..7137, 7077..7139, 7384..7497, 7388..7495, 7597..7659, 7598..7660, 7598..7678, 7605..7679, 7837..7980, 7845..7982		

Seq. No.	54856	Seq. ID	OJ000112_13.0426.C1
Gene No.	115044	Strand	-

Start	25008	End	25067
Name	OJ000112_13.0426.C1.o4.ts	Method	TBLASTX:Soybean
Start	7613	End	8271
GI	none	Score	64
Exons	7613..7678, 7617..7673, 7845..8000, 7846..8001, 7851..8006, 8141..8269, 8141..8269, 8151..8270, 8154..8270, 8158..8271		

Seq. No.	54856	Seq. ID	OJ000112_13.0426.C1
Gene No.	115044	Strand	-
Start	25008	End	25067
Name	OJ000112_13.0426.C1.o3.tc	Method	TBLASTX:Cress
Start	8141	End	8270
GI	none	Score	156
Exons	8141..8269, 8151..8270		

Seq. No.	54856	Seq. ID	OJ000112_13.0426.C1
Gene No.	115044	Strand	-
Start	25008	End	25067
Name	OJ000112_13.0426.C1.o7.tm	Method	TBLASTX:Maize
Start	10766	End	12806
GI	none	Score	110
Exons	10766..10906, 10768..10869, 10769..10903, 10932..11006, 10940..11008, 10943..11008, 11118..11177, 11118..11222, 11122..11211, 11549..11650, 11556..11651, 11785..11805, 11806..11850, 11808..11852, 12102..12194, 12107..12184, 12713..12766, 12720..12767, 12765..12806, 12768..12806		

Seq. No.	54856	Seq. ID	OJ000112_13.0426.C1
Gene No.	115044	Strand	-
Start	25008	End	25067
Name	OJ000112_13.0426.C1.o5.ts	Method	TBLASTX:Soybean
Start	16200	End	16444
GI	none	Score	144
Exons	16200..16358, 16235..16444, 16235..16441		

Seq. No.	54856	Seq. ID	OJ000112_13.0426.C1
Gene No.	115044	Strand	-
Start	25008	End	25067
Name	OJ000112_13.0426.C1.o2.tm	Method	TBLASTX:Maize
Start	16209	End	17259
GI	none	Score	247
Exons	16209..16466, 16209..16364, 16210..16428, 16229..16465, 16506..16694, 16510..16692, 16511..16705, 17029..17259, 17032..17259		

Seq. No.	54856	Seq. ID	OJ000112_13.0426.C1
Gene No.	115044	Strand	-
Start	25008	End	25067
Name	OJ000112_13.0426.C1.o2.ts	Method	TBLASTX:Soybean
Start	17033	End	17271
GI	none	Score	138
Exons	17033..17266, 17035..17271		

Seq. No.	54856	Seq. ID	OJ000112_13.0426.C1
Gene No.	115044	Strand	-
Start	25008	End	25067
Name	OJ000112_13.0426.C1.o1.ts	Method	TBLASTX:Soybean

Start	17404	End	18808
GI	none	Score	91
Exons	17404..17487, 17405..17485, 17405..17488, 17406..17486, 17407..17505, 17508..17597, 17910..18101, 17952..18068, 17962..18102, 17986..18102, 18489..18650, 18491..18655, 18492..18650, 18737..18808, 18738..18806		

Seq. No.	54856	Seq. ID	OJ000112_13.0426.C1
Gene No.	115044	Strand	-
Start	25008	End	25067
Name	OJ000112_13.0426.C1.o4.tm	Method	TBLASTX:Maize
Start	18046	End	18811
GI	none	Score	86
Exons	18046..18141, 18048..18104, 18489..18653, 18491..18655, 18492..18653, 18737..18811, 18738..18809		

Seq. No.	54856	Seq. ID	OJ000112_13.0426.C1
Gene No.	115044	Strand	-
Start	25008	End	25067
Name	OJ000112_13.0426.C1.o1.tc	Method	TBLASTX:Cress
Start	18570	End	18845
GI	none	Score	90
Exons	18570..18662, 18572..18649, 18729..18845, 18737..18844		

Seq. No.	54856	Seq. ID	OJ000112_13.0426.C1
Gene No.	115044	Strand	-
Start	25008	End	25067
Name	OJ000112_13.0426.C1.o3.ts	Method	TBLASTX:Soybean
Start	19989	End	21784
GI	none	Score	95
Exons	19989..20090, 19989..20099, 19990..20100, 20818..20859, 20893..20976, 20894..20977, 20959..21045, 21465..21614, 21466..21615, 21469..21615, 21485..21661, 21713..21784, 21720..21782		

Seq. No.	54856	Seq. ID	OJ000112_13.0426.C1
Gene No.	115044	Strand	-
Start	25008	End	25067
Name	OJ000112_13.0426.C1.o8.tm	Method	TBLASTX:Maize
Start	20926	End	21736
GI	none	Score	146
Exons	20926..20958, 20956..21051, 20957..21052, 21438..21614, 21445..21615, 21469..21615, 21713..21736		

Seq. No.	54856	Seq. ID	OJ000112_13.0426.C1
Gene No.	115044	Strand	-
Start	25008	End	25067
Name	OJ000112_13.0426.C1.o8.gp	Method	AAT/GAP
Start	25008	End	25067
GI	uC-osrocyp016e08b1	Score	112
Exons	25008..25067		
GI Descrip.	'2501011/sp|P73505|SYI_SYNY3 2.0e-15 ISOLEUCYL-TRNA SYNTHETASE (ISOLEUCINE--TRNA LIGASE) (ILERS) >gi_1652625_dbj_BAA17545_ (D90907) isoleucyl-tRNA synthetase [Synechocystis sp.]'		

Seq. No.	54857	Seq. ID	OJ000112_13.0426.C2
Gene No.	115045	Strand	-

Start	1	End	726
Name	OJ000112_13.0426.C2.o1.np	Method	AAT/NAP
Start	1	End	726
GI	7362786	Score	614
Exons	1..483, 574..726		
GI Descrip.	(AL162691) cellulase-like protein [Arabidopsis thaliana]		

Seq. No.	54857	Seq. ID	OJ000112_13.0426.C2
Gene No.	115045	Strand	-
Start	1	End	726
Name	OJ000112_13.0426.C2.o1.tc	Method	TBLASTX:Cress
Start	4	End	618
GI	none	Score	96
Exons	4..336, 5..301, 565..618		

Seq. No.	54857	Seq. ID	OJ000112_13.0426.C2
Gene No.	115045	Strand	-
Start	1	End	726
Name	OJ000112_13.0426.C2.o1.tm	Method	TBLASTX:Maize
Start	4	End	672
GI	none	Score	58
Exons	4..45, 5..52, 34..483, 35..454, 565..672, 572..652		

Seq. No.	54857	Seq. ID	OJ000112_13.0426.C2
Gene No.	115045	Strand	-
Start	1	End	726
Name	OJ000112_13.0426.C2.o1.ts	Method	TBLASTX:Soybean
Start	4	End	660
GI	none	Score	109
Exons	4..180, 133..417, 565..660		

Seq. No.	54857	Seq. ID	OJ000112_13.0426.C2
Gene No.	115045	Strand	-
Start	1	End	726
Name	OJ000112_13.0426.C2.o1.gs	Method	GENSCAN
Start	16	End	682
GI	none	Score	.53
Exons	16..682		

Seq. No.	54858	Seq. ID	OJ000112_13.0426.C3
Gene No.	115046	Strand	+
Start	712	End	1069
Name	OJ000112_13.0426.C3.o1.gs	Method	GENSCAN
Start	712	End	1069
GI	none	Score	.87
Exons	712..761, 852..1069		

Seq. No.	54858	Seq. ID	OJ000112_13.0426.C3
Gene No.	115047	Strand	+
Start	8559	End	8893
Name	OJ000112_13.0426.C3.o2.gp	Method	AAT/GAP
Start	8559	End	8893
GI	uC-osflM202074b11a1	Score	485
Exons	8559..8893		
GI Descrip.	'4176420/dbj|BAA37167| 2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	54858	Seq. ID	OJ000112_13.0426.C3
Gene No.	115048	Strand	+
Start	21021	End	21187
Name	OJ000112_13.0426.C3.o4.np	Method	AAT/NAP
Start	21021	End	21187
GI	7340884	Score	124
Exons	21021..21187		
GI Descrip.	(AP001551) Similar to Antirrhinum majus transposon Tam3 gene for transposase. (AB013982) [Oryza sativa]		

Seq. No.	54858	Seq. ID	OJ000112_13.0426.C3
Gene No.	115049	Strand	-
Start	1589	End	1886
Name	OJ000112_13.0426.C3.o1.gp	Method	AAT/GAP
Start	1589	End	1886
GI	3761271	Score	562
Exons	1589..1886		

Seq. No.	54858	Seq. ID	OJ000112_13.0426.C3
Gene No.	115050	Strand	-
Start	2049	End	20249
Name	OJ000112_13.0426.C3.o1.tc	Method	TBLASTX:Cress
Start	482	End	1104
GI	none	Score	59
Exons	482..556, 655..741, 835..906, 840..881, 864..917, 872..916, 1029..1082, 1029..1103, 1036..1104		

Seq. No.	54858	Seq. ID	OJ000112_13.0426.C3
Gene No.	115050	Strand	-
Start	2049	End	20249
Name	OJ000112_13.0426.C3.o2.tm	Method	TBLASTX:Maize
Start	482	End	1107
GI	none	Score	100
Exons	482..556, 482..553, 650..751, 655..750, 656..751, 835..918, 860..916, 1029..1106, 1030..1107		

Seq. No.	54858	Seq. ID	OJ000112_13.0426.C3
Gene No.	115050	Strand	-
Start	2049	End	20249
Name	OJ000112_13.0426.C3.o2.gs	Method	GENSCAN
Start	2049	End	20237
GI	none	Score	.68
Exons	2049..2215, 3503..3548, 3785..3842, 4050..4214, 4337..4471, 4572..4882, 5580..6252, 7017..7065, 7143..7313, 7441..7533, 8735..8735, 9696..9842, 10028..10153, 11254..11381, 11604..11676, 12210..12359, 12457..12543, 12965..13114, 13258..13547, 13715..13911, 14003..14202, 14591..14675, 15326..15465, 16317..16445, 16568..16682, 17326..17495, 17561..17940, 19061..19163, 19632..19706, 20103..20237		

Seq. No.	54858	Seq. ID	OJ000112_13.0426.C3
Gene No.	115050	Strand	-
Start	2049	End	20249
Name	OJ000112_13.0426.C3.o3.tm	Method	TBLASTX:Maize
Start	3557	End	4397
GI	none	Score	150
Exons	3557..3604, 3559..3708, 3559..3717, 3575..3718, 3647..3724,		

3713..3832, 3714..3821, 4048..4149, 4049..4177, 4049..4183,
4050..4184, 4332..4397, 4337..4396

Seq. No.	54858	Seq. ID	OJ000112_13.0426.C3
Gene No.	115050	Strand	-
Start	2049	End	20249
Name	OJ000112_13.0426.C3.o2.np	Method	AAT/NAP
Start	3565	End	6229
GI	3075391	Score	524
Exons	3565..3842, 4050..4174, 4337..4403, 4485..4882, 5580..6229		
GI Descrip.	(AC004484) unknown protein [Arabidopsis thaliana]		

Seq. No.	54858	Seq. ID	OJ000112_13.0426.C3
Gene No.	115050	Strand	-
Start	2049	End	20249
Name	OJ000112_13.0426.C3.o4.tm	Method	TBLASTX:Maize
Start	4535	End	5696
GI	none	Score	56
Exons	4535..4639, 4551..4634, 4641..4706, 4641..4706, 4642..4707, 4643..4708, 4643..4735, 4711..4884, 4715..4888, 4716..4883, 4753..4884, 4757..4885, 5553..5693, 5577..5696		

Seq. No.	54858	Seq. ID	OJ000112_13.0426.C3
Gene No.	115050	Strand	-
Start	2049	End	20249
Name	OJ000112_13.0426.C3.o5.tm	Method	TBLASTX:Maize
Start	8939	End	10514
GI	none	Score	75
Exons	8939..8998, 9068..9175, 9075..9212, 9687..9851, 9689..9841, 9700..9843, 10025..10159, 10026..10133, 10028..10159, 10225..10347, 10226..10339, 10309..10368, 10310..10366, 10456..10512, 10457..10513, 10464..10514		

Seq. No.	54858	Seq. ID	OJ000112_13.0426.C3
Gene No.	115050	Strand	-
Start	2049	End	20249
Name	OJ000112_13.0426.C3.o3.np	Method	AAT/NAP
Start	9083	End	20249
GI	2335096	Score	1198
Exons	9083..9308, 9651..9842, 10124..10368, 10456..10640, 11254..11382, 11602..11676, 12210..12885, 13258..13547, 14022..14281, 14567..14638, 16317..16400, 16568..16682, 19048..19172, 19632..19706, 20103..20249		
GI Descrip.	(AC002339) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	54858	Seq. ID	OJ000112_13.0426.C3
Gene No.	115050	Strand	-
Start	2049	End	20249
Name	OJ000112_13.0426.C3.o7.tm	Method	TBLASTX:Maize
Start	10587	End	12362
GI	none	Score	62
Exons	10587..10640, 10591..10641, 11236..11385, 11252..11383, 11252..11422, 11307..11384, 11588..11653, 11602..11664, 11603..11665, 12202..12360, 12210..12362, 12211..12360, 12219..12362		

Seq. No.	54858	Seq. ID	OJ000112_13.0426.C3

Gene No.	115050	Strand	-
Start	2049	End	20249
Name	OJ000112_13.0426.C3.o1.tm	Method	TBLASTX:Maize
Start	12491	End	12888
GI	none	Score	274
Exons	12491..12853, 12493..12888, 12805..12888		

Seq. No.	54858	Seq. ID	OJ000112_13.0426.C3
Gene No.	115050	Strand	-
Start	2049	End	20249
Name	OJ000112_13.0426.C3.o2.tc	Method	TBLASTX:Cress
Start	12998	End	13555
GI	none	Score	78
Exons	12998..13117, 13053..13115, 13255..13551, 13355..13555		

Seq. No.	54858	Seq. ID	OJ000112_13.0426.C3
Gene No.	115050	Strand	-
Start	2049	End	20249
Name	OJ000112_13.0426.C3.o8.tm	Method	TBLASTX:Maize
Start	13755	End	14169
GI	none	Score	95
Exons	13755..13892, 13755..13910, 13756..13923, 13978..14169		

Seq. No.	54858	Seq. ID	OJ000112_13.0426.C3
Gene No.	115050	Strand	-
Start	2049	End	20249
Name	OJ000112_13.0426.C3.o3.tc	Method	TBLASTX:Cress
Start	16307	End	20238
GI	none	Score	81
Exons	16307..16450, 16309..16449, 16332..16454, 16568..16681, 19032..19166, 19047..19178, 19629..19706, 19633..19710, 20103..20237, 20113..20238		

Seq. No.	54858	Seq. ID	OJ000112_13.0426.C3
Gene No.	115050	Strand	-
Start	2049	End	20249
Name	OJ000112_13.0426.C3.o6.tm	Method	TBLASTX:Maize
Start	17364	End	17769
GI	none	Score	38
Exons	17364..17393, 17365..17397, 17430..17465, 17431..17466, 17432..17554, 17460..17486, 17502..17546, 17510..17554, 17546..17683, 17564..17749, 17602..17634, 17606..17647, 17648..17752, 17649..17759, 17746..17769		

Seq. No.	54859	Seq. ID	OJ000112_13.0426.C4
Gene No.	115051	Strand	+
Start	93	End	1654
Name	OJ000112_13.0426.C4.o1.np	Method	AAT/NAP
Start	93	End	350
GI	7228441	Score	97
Exons	93..350		
GI Descrip.	(AP001366) hypothetical protein [Oryza sativa]		

Seq. No.	54859	Seq. ID	OJ000112_13.0426.C4
Gene No.	115051	Strand	+
Start	93	End	1654
Name	OJ000112_13.0426.C4.o1.gs	Method	GENSCAN

Start	169	End	1654
GI	none	Score	.96
Exons	169..225, 1419..1553, 1571..1654		

Seq. No.	54859	Seq. ID	OJ000112_13.0426.C4
Gene No.	115052	Strand	+
Start	3713	End	4951
Name	OJ000112_13.0426.C4.o2.gs	Method	GENSCAN
Start	3713	End	4951
GI	none	Score	.44
Exons	3713..3758, 4715..4822, 4836..4951		

Seq. No.	54859	Seq. ID	OJ000112_13.0426.C4
Gene No.	115053	Strand	+
Start	5710	End	8087
Name	OJ000112_13.0426.C4.o1.gp	Method	AAT/GAP
Start	5710	End	6236
GI	none	Score	1030
Exons	5710..6236		

Seq. No.	54859	Seq. ID	OJ000112_13.0426.C4
Gene No.	115053	Strand	+
Start	5710	End	8087
Name	OJ000112_13.0426.C4.o2.np	Method	AAT/NAP
Start	5776	End	8087
GI	3176874	Score	1491
Exons	5776..5954, 5993..8087		
GI Descrip.	(AF065639) cucumisin-like serine protease [Arabidopsis thaliana]		

Seq. No.	54859	Seq. ID	OJ000112_13.0426.C4
Gene No.	115053	Strand	+
Start	5710	End	8087
Name	OJ000112_13.0426.C4.o2.gp	Method	AAT/GAP
Start	6379	End	6820
GI	uC-osflcyp168b12b1	Score	856
Exons	6379..6820		
GI Descrip.	'1771160/emb|CAA67429| 5.0e-37 (X98929) SBT1 [Lycopersicon esculentum] >gi_3687305_emb_CAA06999.1_ (AJ006378) subtilisin-like protease [Lycopersicon esculentum]'		

Seq. No.	54859	Seq. ID	OJ000112_13.0426.C4
Gene No.	115053	Strand	+
Start	5710	End	8087
Name	OJ000112_13.0426.C4.o3.gp	Method	AAT/GAP
Start	6932	End	7396
GI	2428587	Score	837
Exons	6932..7396		

Seq. No.	54859	Seq. ID	OJ000112_13.0426.C4
Gene No.	115054	Strand	+
Start	11935	End	12773
Name	OJ000112_13.0426.C4.o3.np	Method	AAT/NAP
Start	11935	End	12773
GI	6815099	Score	86
Exons	11935..12123, 12659..12773		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	54859	Seq. ID	OJ000112_13.0426.C4
Gene No.	115055	Strand	-
Start	7531	End	8299
Name	OJ000112_13.0426.C4.o2.tc	Method	TBLASTX:Cress
Start	5841	End	6467
GI	none	Score	41
Exons	5841..5888, 6009..6257, 6107..6163, 6351..6410, 6414..6467		

Seq. No.	54859	Seq. ID	OJ000112_13.0426.C4
Gene No.	115055	Strand	-
Start	7531	End	8299
Name	OJ000112_13.0426.C4.o1.ts	Method	TBLASTX:Soybean
Start	5991	End	8084
GI	none	Score	132
Exons	5991..6194, 6216..6251, 6273..6317, 6350..6409, 6351..6410, 6413..6958, 6414..6965, 6969..7034, 7107..7256, 7260..7829, 7262..7696, 7833..8084		

Seq. No.	54859	Seq. ID	OJ000112_13.0426.C4
Gene No.	115055	Strand	-
Start	7531	End	8299
Name	OJ000112_13.0426.C4.o2.tm	Method	TBLASTX:Maize
Start	6009	End	6591
GI	none	Score	114
Exons	6009..6203, 6204..6251, 6273..6347, 6351..6410, 6413..6589, 6414..6590, 6415..6591, 6502..6591		

Seq. No.	54859	Seq. ID	OJ000112_13.0426.C4
Gene No.	115055	Strand	-
Start	7531	End	8299
Name	OJ000112_13.0426.C4.o1.tc	Method	TBLASTX:Cress
Start	6467	End	8084
GI	none	Score	207
Exons	6467..6676, 6468..6686, 6501..6677, 6660..7034, 6677..7033, 7049..7081, 7110..7748, 7208..7705, 7778..7972, 7779..7994, 7977..8084, 8018..8071		

Seq. No.	54859	Seq. ID	OJ000112_13.0426.C4
Gene No.	115055	Strand	-
Start	7531	End	8299
Name	OJ000112_13.0426.C4.o1.tw	Method	TBLASTX:Wheat
Start	6515	End	7034
GI	none	Score	86
Exons	6515..6589, 6519..6590, 6593..6673, 6593..6676, 6594..6689, 6650..7033, 6660..7034		

Seq. No.	54859	Seq. ID	OJ000112_13.0426.C4
Gene No.	115055	Strand	-
Start	7531	End	8299
Name	OJ000112_13.0426.C4.o1.tm	Method	TBLASTX:Maize
Start	6597	End	8084
GI	none	Score	215
Exons	6597..6833, 6608..6679, 6722..6829, 6825..6914, 6969..7034, 7260..7991, 7262..7753, 7778..7816, 8022..8084		

Seq. No.	54859	Seq. ID	OJ000112_13.0426.C4
Gene No.	115055	Strand	-

Start	7531	End	8299
Name	OJ000112_13.0426.C4.o3.tw	Method	TBLASTX:Wheat
Start	7260	End	7562
GI	none	Score	56
Exons	7260..7346, 7295..7363, 7308..7364, 7308..7367, 7412..7534, 7415..7555, 7416..7562		

Seq. No.	54859	Seq. ID	OJ000112_13.0426.C4
Gene No.	115055	Strand	-
Start	7531	End	8299
Name	OJ000112_13.0426.C4.o4.gp	Method	AAT/GAP
Start	7531	End	8299
GI	38872_1.R1084	Score	1489
Exons	7531..8299		
GI Descrip.	'2924509/emb|CAA17763.1| 5.0e-24 (AL022023) subtilisin proteinase-like [Arabidopsis thaliana]'		

Seq. No.	54859	Seq. ID	OJ000112_13.0426.C4
Gene No.	115055	Strand	-
Start	7531	End	8299
Name	OJ000112_13.0426.C4.o2.tw	Method	TBLASTX:Wheat
Start	7628	End	7970
GI	none	Score	118
Exons	7628..7723, 7629..7763, 7775..7951, 7776..7970		

Seq. No.	54860	Seq. ID	OJ000112_13.0426.C5
Gene No.	115056	Strand	+
Start	444	End	526
Name	OJ000112_13.0426.C5.o1.gs	Method	GENSCAN
Start	444	End	526
GI	none	Score	.76
Exons	444..526		

Seq. No.	54861	Seq. ID	OJ000112_13.0426.C6
Gene No.	115057	Strand	+
Start	1	End	521
Name	OJ000112_13.0426.C6.o1.np	Method	AAT/NAP
Start	1	End	409
GI	6523100	Score	70
Exons	1..29, 57..409		
GI Descrip.	(AL133315) putative protein [Arabidopsis thaliana]		

Seq. No.	54861	Seq. ID	OJ000112_13.0426.C6
Gene No.	115057	Strand	+
Start	1	End	521
Name	OJ000112_13.0426.C6.o1.gs	Method	GENSCAN
Start	93	End	521
GI	none	Score	.42
Exons	93..521		

Seq. No.	54862	Seq. ID	OJ000112_13.0426.C7
Gene No.	115058	Strand	+
Start	1	End	1048
Name	OJ000112_13.0426.C7.o1.np	Method	AAT/NAP
Start	1	End	1048
GI	7435658	Score	492
Exons	1..1048		

GI Descrip. subtilisin-like proteinase (EC 3.4.21.-) - Arabidopsis thaliana gi|2924509|emb|CAA17763.1| (AL022023) subtilisin proteinase-like [Arabidopsis thaliana] gi|7270449|emb|CAB80215.1| (AL161586) subtilisin proteinase-like [Arabidopsis thaliana]

Seq. No.	54862	Seq. ID	OJ000112_13.0426.C7
Gene No.	115058	Strand	+
Start	1	End	1048
Name	OJ000112_13.0426.C7.o1.gs	Method	GENSCAN
Start	201	End	1042
GI	none	Score	.85
Exons	201..779, 797..1042		

Seq. No.	54862	Seq. ID	OJ000112_13.0426.C7
Gene No.	115059	Strand	+
Start	4148	End	5115
Name	OJ000112_13.0426.C7.o2.np	Method	AAT/NAP
Start	4148	End	5115
GI	7340868	Score	96
Exons	4148..4328, 5092..5115		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	54862	Seq. ID	OJ000112_13.0426.C7
Gene No.	115060	Strand	-
Start	1380	End	1688
Name	OJ000112_13.0426.C7.o2.gs	Method	GENSCAN
Start	1380	End	1688
GI	none	Score	.95
Exons	1380..1688		

Seq. No.	54862	Seq. ID	OJ000112_13.0426.C7
Gene No.	115061	Strand	-
Start	2874	End	3706
Name	OJ000112_13.0426.C7.o1.ts	Method	TBLASTX:Soybean
Start	109	End	1032
GI	none	Score	56
Exons	109..195, 198..407, 201..314, 212..409, 408..506, 409..507, 514..582, 515..583, 585..704, 741..764, 778..867, 779..877, 970..1032, 974..1030		

Seq. No.	54862	Seq. ID	OJ000112_13.0426.C7
Gene No.	115061	Strand	-
Start	2874	End	3706
Name	OJ000112_13.0426.C7.o1.tc	Method	TBLASTX:Cress
Start	198	End	1129
GI	none	Score	217
Exons	198..407, 212..409, 408..506, 409..507, 512..583, 585..710, 590..658, 729..779, 797..877, 805..876, 929..1036, 973..1029, 1085..1129		

Seq. No.	54862	Seq. ID	OJ000112_13.0426.C7
Gene No.	115061	Strand	-
Start	2874	End	3706
Name	OJ000112_13.0426.C7.o1.tm	Method	TBLASTX:Maize
Start	219	End	819
GI	none	Score	198
Exons	219..407, 222..407, 224..409, 278..451, 408..506, 409..507,		

514..579, 515..586, 524..580, 528..581, 535..561, 588..791, 590..688, 778..819

Seq. No.	54862	Seq. ID	OJ000112_13.0426.C7
Gene No.	115061	Strand	-
Start	2874	End	3706
Name	OJ000112_13.0426.C7.o3.gs	Method	GENSCAN
Start	2874	End	3706
GI	none	Score	.6
Exons	2874..2876, 2954..3084, 3222..3352, 3588..3706		

Seq. No.	54863	Seq. ID	OJ000112_13.0426.C8
Gene No.	115062	Strand	-
Start	197	End	1502
Name	OJ000112_13.0426.C8.o1.np	Method	AAT/NAP
Start	197	End	1502
GI	6815099	Score	79
Exons	197..321, 1455..1502		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	54864	Seq. ID	OJ000112_13.0426.C11
Gene No.	115063	Strand	+
Start	364	End	939
Name	OJ000112_13.0426.C11.o1.gp	Method	AAT/GAP
Start	364	End	674
GI	2428036	Score	552
Exons	364..674		

Seq. No.	54864	Seq. ID	OJ000112_13.0426.C11
Gene No.	115063	Strand	+
Start	364	End	939
Name	OJ000112_13.0426.C11.o1.gs	Method	GENSCAN
Start	426	End	913
GI	none	Score	.75
Exons	426..674, 759..913		

Seq. No.	54864	Seq. ID	OJ000112_13.0426.C11
Gene No.	115063	Strand	+
Start	364	End	939
Name	OJ000112_13.0426.C11.o1.np	Method	AAT/NAP
Start	450	End	939
GI	7362786	Score	402
Exons	450..674, 759..939		
GI Descrip.	(AL162691) cellulase-like protein [Arabidopsis thaliana]		

Seq. No.	54864	Seq. ID	OJ000112_13.0426.C11
Gene No.	115063	Strand	+
Start	364	End	939
Name	OJ000112_13.0426.C11.o1.ts	Method	TBLASTX:Soybean
Start	516	End	938
GI	none	Score	137
Exons	516..665, 545..661, 761..937, 762..938		

Seq. No.	54864	Seq. ID	OJ000112_13.0426.C11
Gene No.	115063	Strand	+
Start	364	End	939
Name	OJ000112_13.0426.C11.o1.tw	Method	TBLASTX:Wheat

Start	528	End	932
GI	none	Score	131
Exons	528..662, 539..667, 540..662, 765..884, 770..838, 873..929, 873..932		

Seq. No.	54864	Seq. ID	OJ000112_13.0426.C11
Gene No.	115063	Strand	+
Start	364	End	939
Name	OJ000112_13.0426.C11.o1.tm	Method	TBLASTX:Maize
Start	542	End	938
GI	none	Score	139
Exons	542..679, 549..677, 741..938, 743..832		

Seq. No.	54864	Seq. ID	OJ000112_13.0426.C11
Gene No.	115063	Strand	+
Start	364	End	939
Name	OJ000112_13.0426.C11.o1.tc	Method	TBLASTX:Cress
Start	549	End	938
GI	none	Score	147
Exons	549..677, 557..676, 741..872, 743..847, 885..938, 911..937		

Seq. No.	54865	Seq. ID	OJ000112_13.0426.C12
Gene No.	115064	Strand	+
Start	197	End	5485
Name	OJ000112_13.0426.C12.o1.gs	Method	GENSCAN
Start	197	End	5485
GI	none	Score	.61
Exons	197..381, 448..557, 1957..2072, 2221..2376, 2529..2608, 4163..4547, 4628..4738, 5234..5485		

Seq. No.	54865	Seq. ID	OJ000112_13.0426.C12
Gene No.	115064	Strand	+
Start	197	End	5485
Name	OJ000112_13.0426.C12.o1.gp	Method	AAT/GAP
Start	1936	End	2133
GI	427960	Score	363
Exons	1936..2133		

Seq. No.	54865	Seq. ID	OJ000112_13.0426.C12
Gene No.	115065	Strand	+
Start	9338	End	14248
Name	OJ000112_13.0426.C12.o2.gs	Method	GENSCAN
Start	9338	End	13872
GI	none	Score	.54
Exons	9338..9414, 11121..11792, 11979..12154, 13208..13872		

Seq. No.	54865	Seq. ID	OJ000112_13.0426.C12
Gene No.	115065	Strand	+
Start	9338	End	14248
Name	OJ000112_13.0426.C12.o2.gp	Method	AAT/GAP
Start	13095	End	13482
GI	702282	Score	736
Exons	13095..13482		

Seq. No.	54865	Seq. ID	OJ000112_13.0426.C12
Gene No.	115065	Strand	+
Start	9338	End	14248

Name	OJ000112_13.0426.C12.o1.np	Method	AAT/NAP
Start	13147	End	14248
GI	7435656	Score	148
Exons	13147..13269, 13331..13915, 14212..14248		
GI Descrip.	subtilisin-like proteinase (EC 3.4.21.-) 2 - tomato gi|1771162|emb|CAA67430.1| (X98930) SBT2 [Lycopersicon esculentum] gi|3687307|emb|CAA07000.1| (AJ006379) subtilisin-like protease [Lycopersicon esculentum]		

Seq. No.	54865	Seq. ID	OJ000112_13.0426.C12
Gene No.	115065	Strand	+
Start	9338	End	14248
Name	OJ000112_13.0426.C12.o1.tm	Method	TBLASTX:Maize
Start	13279	End	13866
GI	none	Score	35
Exons	13279..13332, 13408..13656, 13762..13866		

Seq. No.	54865	Seq. ID	OJ000112_13.0426.C12
Gene No.	115065	Strand	+
Start	9338	End	14248
Name	OJ000112_13.0426.C12.o1.ts	Method	TBLASTX:Soybean
Start	13399	End	13866
GI	none	Score	176
Exons	13399..13656, 13495..13566, 13620..13658, 13753..13866, 13773..13865		

Seq. No.	54865	Seq. ID	OJ000112_13.0426.C12
Gene No.	115065	Strand	+
Start	9338	End	14248
Name	OJ000112_13.0426.C12.o1.tw	Method	TBLASTX:Wheat
Start	13408	End	13665
GI	none	Score	179
Exons	13408..13665		

Seq. No.	54865	Seq. ID	OJ000112_13.0426.C12
Gene No.	115065	Strand	+
Start	9338	End	14248
Name	OJ000112_13.0426.C12.o1.tc	Method	TBLASTX:Cress
Start	13414	End	13866
GI	none	Score	122
Exons	13414..13572, 13615..13665, 13762..13866		

Seq. No.	54865	Seq. ID	OJ000112_13.0426.C12
Gene No.	115065	Strand	+
Start	9338	End	14248
Name	OJ000112_13.0426.C12.o3.gp	Method	AAT/GAP
Start	13863	End	14192
GI	5900764	Score	620
Exons	13863..14192		
GI Descrip.	5042437/gb|AC007789.1|AC007789 6.0e-12 Oryza sativa BAC T49B20 genomic sequence, complete sequence		

Seq. No.	54866	Seq. ID	OJ000112_13.0426.C13
Gene No.	115066	Strand	+
Start	85	End	1453
Name	OJ000112_13.0426.C13.o1.gs	Method	GENSCAN
Start	85	End	1453

GI	none	Score	.59
Exons	85..196, 1443..1453		

Seq. No.	54866	Seq. ID	OJ000112_13.0426.C13
Gene No.	115067	Strand	+
Start	3171	End	5515
Name	OJ000112_13.0426.C13.o2.gs	Method	GENSCAN
Start	3171	End	5515
GI	none	Score	.78
Exons	3171..3636, 3660..4503, 4592..4984, 5020..5515		

Seq. No.	54866	Seq. ID	OJ000112_13.0426.C13
Gene No.	115067	Strand	+
Start	3171	End	5515
Name	OJ000112_13.0426.C13.o1.np	Method	AAT/NAP
Start	3240	End	5488
GI	4006827	Score	1128
Exons	3240..5488		
GI Descrip.	(AC005970) putative serine protease [Arabidopsis thaliana]		

Seq. No.	54866	Seq. ID	OJ000112_13.0426.C13
Gene No.	115068	Strand	+
Start	13426	End	13931
Name	OJ000112_13.0426.C13.o3.gp	Method	AAT/GAP
Start	13416	End	13931
GI	57737_1.R1084	Score	946
Exons	13416..13931		
GI Descrip.	'5042437/gb|AC007789.1|AC007789 6.0e-12 Oryza sativa BAC T49B20 genomic sequence, complete sequence'		

Seq. No.	54866	Seq. ID	OJ000112_13.0426.C13
Gene No.	115068	Strand	+
Start	13426	End	13931
Name	OJ000112_13.0426.C13.o4.gs	Method	GENSCAN
Start	13426	End	13812
GI	none	Score	.98
Exons	13426..13812		

Seq. No.	54866	Seq. ID	OJ000112_13.0426.C13
Gene No.	115069	Strand	-
Start	7323	End	9674
Name	OJ000112_13.0426.C13.o1.tc	Method	TBLASTX:Cress
Start	7	End	8994
GI	none	Score	85
Exons	7..102, 12..101, 121..207, 132..206, 3856..4071, 3857..4072, 4093..4305, 4094..4309, 4316..4417, 4324..4416, 4643..5035, 4644..4988, 5009..5398, 5161..5397, 5363..5479, 5419..5472, 7353..7421, 7461..7688, 7612..7668, 7707..8993, 7740..7883, 7744..8367, 8256..8522, 8494..8799, 8802..8939, 8863..8994		

Seq. No.	54866	Seq. ID	OJ000112_13.0426.C13
Gene No.	115069	Strand	-
Start	7323	End	9674
Name	OJ000112_13.0426.C13.o1.tw	Method	TBLASTX:Wheat
Start	27	End	8945
GI	none	Score	86
Exons	27..101, 31..105, 120..197, 121..207, 3904..3981, 3908..3982,		

3960..4007, 3985..4146, 3986..4078, 4085..4324, 4085..4306,
4093..4314, 4327..4416, 4328..4417, 8399..8647, 8421..8864,
8422..8799, 8802..8849, 8868..8945, 8869..8943

Seq. No.	54866	Seq. ID	OJ000112_13.0426.C13
Gene No.	115069	Strand	-
Start	7323	End	9674
Name	OJ000112_13.0426.C13.o1.ts	Method	TBLASTX:Soybean
Start	28	End	9590
GI	none	Score	79
Exons	28..105, 121..198, 3261..3335, 3414..3545, 3740..3799, 3790..3909, 3803..3904, 3905..4063, 3907..4059, 4085..4306, 4102..4302, 4331..4417, 4366..4416, 4635..5027, 4643..5035, 5009..5107, 5144..5257, 5348..5479, 7353..7463, 7581..7664, 7722..8189, 7738..8187, 8164..8352, 8190..8504, 8235..8453, 8422..8481, 8499..8795, 8503..8745, 8778..8936, 8862..9044, 8863..9003, 9051..9170, 9117..9182, 9213..9245, 9300..9449, 9564..9590		

Seq. No.	54866	Seq. ID	OJ000112_13.0426.C13
Gene No.	115069	Strand	-
Start	7323	End	9674
Name	OJ000112_13.0426.C13.o1.tm	Method	TBLASTX:Maize
Start	121	End	8864
GI	none	Score	97
Exons	121..198, 132..197, 3986..4063, 3989..4066, 4085..4225, 4102..4221, 4217..4303, 4229..4303, 4361..4417, 4502..4636, 4643..5035, 4644..4997, 5012..5080, 5420..5485, 7311..7415, 7353..7415, 7467..7514, 7629..7712, 7701..8189, 7747..8187, 8176..8367, 8190..8486, 8544..8630, 8622..8795, 8626..8793, 8778..8864, 8805..8861		

Seq. No.	54866	Seq. ID	OJ000112_13.0426.C13
Gene No.	115069	Strand	-
Start	7323	End	9674
Name	OJ000112_13.0426.C13.o2.tc	Method	TBLASTX:Cress
Start	3255	End	9593
GI	none	Score	43
Exons	3255..3320, 3414..3545, 3740..3799, 3803..3856, 4503..4637, 8994..9044, 9051..9119, 9117..9185, 9142..9186, 9213..9245, 9268..9414, 9294..9449, 9564..9593		

Seq. No.	54866	Seq. ID	OJ000112_13.0426.C13
Gene No.	115069	Strand	-
Start	7323	End	9674
Name	OJ000112_13.0426.C13.o2.tm	Method	TBLASTX:Maize
Start	3722	End	9128
GI	none	Score	253
Exons	3722..3937, 3722..3931, 3736..3942, 8910..9128, 8911..9099		

Seq. No.	54866	Seq. ID	OJ000112_13.0426.C13
Gene No.	115069	Strand	-
Start	7323	End	9674
Name	OJ000112_13.0426.C13.o2.tw	Method	TBLASTX:Wheat
Start	4820	End	8019
GI	none	Score	154
Exons	4820..4996, 4821..4997, 7818..8012, 7819..8013, 7882..8019		

Seq. No.	54866	Seq. ID	OJ000112_13.0426.C13
Gene No.	115069	Strand	-
Start	7323	End	9674
Name	OJ000112_13.0426.C13.o3.tw	Method	TBLASTX:Wheat
Start	5012	End	7812
GI	none	Score	195
Exons	5012..5341, 7476..7664, 7686..7811, 7690..7812		

Seq. No.	54866	Seq. ID	OJ000112_13.0426.C13
Gene No.	115069	Strand	-
Start	7323	End	9674
Name	OJ000112_13.0426.C13.o3.tm	Method	TBLASTX:Maize
Start	5174	End	7628
GI	none	Score	135
Exons	5174..5380, 7416..7628, 7419..7628		

Seq. No.	54866	Seq. ID	OJ000112_13.0426.C13
Gene No.	115069	Strand	-
Start	7323	End	9674
Name	OJ000112_13.0426.C13.o3.gs	Method	GENSCAN
Start	7323	End	9671
GI	none	Score	1
Exons	7323..9671		

Seq. No.	54866	Seq. ID	OJ000112_13.0426.C13
Gene No.	115069	Strand	-
Start	7323	End	9674
Name	OJ000112_13.0426.C13.o2.np	Method	AAT/NAP
Start	7350	End	9674
GI	3176874	Score	1742
Exons	7350..9674		
GI Descrip.	(AF065639) cucumisin-like serine protease [Arabidopsis thaliana]		

Seq. No.	54866	Seq. ID	OJ000112_13.0426.C13
Gene No.	115069	Strand	-
Start	7323	End	9674
Name	OJ000112_13.0426.C13.o1.gp	Method	AAT/GAP
Start	7521	End	7930
GI	LIB3432-025-P1-K1-D7	Score	796
Exons	7521..7930		
GI Descrip.	'1076414/pir||S52770 3.0e-33 subtilisin-like proteinase (EC 3.4.21.-) - Arabidopsis thaliana (fragment) >gi_757534_emb_CAA59963_ (X85974) subtilisin-like protease [Arabidopsis thaliana]'		

Seq. No.	54866	Seq. ID	OJ000112_13.0426.C13
Gene No.	115069	Strand	-
Start	7323	End	9674
Name	OJ000112_13.0426.C13.o2.gp	Method	AAT/GAP
Start	8296	End	8705
GI	571677	Score	776
Exons	8296..8705		
GI Descrip.	1076414/pir||S52770 3.0e-33 subtilisin-like proteinase (EC 3.4.21.-) - Arabidopsis thaliana (fragment) >gi_757534_emb_CAA59963_ (X85974) subtilisin-like protease [Arabidopsis thaliana]		

Seq. No.	54867	Seq. ID	OJ000112_13.0426.C14
Gene No.	115070	Strand	+
Start	740	End	1586
Name	OJ000112_13.0426.C14.o1.gs	Method	GENSCAN
Start	740	End	1586
GI	none	Score	.49
Exons	740..943, 1209..1586		

Seq. No.	54867	Seq. ID	OJ000112_13.0426.C14
Gene No.	115071	Strand	+
Start	4600	End	5067
Name	OJ000112_13.0426.C14.o1.np	Method	AAT/NAP
Start	4600	End	5067
GI	7523505	Score	321
Exons	4600..4848, 4961..5067		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	54867	Seq. ID	OJ000112_13.0426.C14
Gene No.	115072	Strand	-
Start	2098	End	4077
Name	OJ000112_13.0426.C14.o1.gp	Method	AAT/GAP
Start	2098	End	4077
GI	none	Score	697
Exons	2098..2441, 3990..4077		

Seq. No.	54867	Seq. ID	OJ000112_13.0426.C14
Gene No.	115073	Strand	-
Start	4974	End	7211
Name	OJ000112_13.0426.C14.o3.gs	Method	GENSCAN
Start	4974	End	7211
GI	none	Score	.51
Exons	4974..5486, 5661..5766, 7198..7211		

Seq. No.	54867	Seq. ID	OJ000112_13.0426.C14
Gene No.	115073	Strand	-
Start	4974	End	7211
Name	OJ000112_13.0426.C14.o2.np	Method	AAT/NAP
Start	5141	End	5489
GI	7523505	Score	295
Exons	5141..5489		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	54867	Seq. ID	OJ000112_13.0426.C14
Gene No.	115074	Strand	-
Start	8748	End	8831
Name	OJ000112_13.0426.C14.o2.gp	Method	AAT/GAP
Start	8748	End	8831
GI	uC-osflM202097d10b1	Score	87
Exons	8748..8831		
GI Descrip.	'4062935/dbj|AB003495.1|AB003495 3.0e-14 Oryza sativa DNA for dihydroflavonol 4-reductase, complete cds'		

Seq. No.	54868	Seq. ID	OJ000112_13.0426.C15
Gene No.	115075	Strand	+
Start	1518	End	1901
Name	OJ000112_13.0426.C15.o1.gs	Method	GENSCAN

Start	1518	End	1901
GI	none	Score	.9
Exons	1518..1901		

Seq. No.	54869	Seq. ID	OJ000112_13.0426.C16
Gene No.	115076	Strand	+
Start	577	End	674
Name	OJ000112_13.0426.C16.o1.gs	Method	GENSCAN
Start	577	End	674
GI	none	Score	.57
Exons	577..674		

Seq. No.	54870	Seq. ID	OJ000112_13.0426.C17
Gene No.	115077	Strand	-
Start	1	End	4532
Name	OJ000112_13.0426.C17.o1.np	Method	AAT/NAP
Start	1	End	2835
GI	7435658	Score	1096
Exons	1..1664, 2813..2835		
GI Descrip.	subtilisin-like proteinase (EC 3.4.21.-) - Arabidopsis thaliana gi|2924509|emb|CAA17763.1| (AL022023) subtilisin proteinase-like [Arabidopsis thaliana] gi|7270449|emb|CAB80215.1| (AL161586) subtilisin proteinase-like [Arabidopsis thaliana]		

Seq. No.	54870	Seq. ID	OJ000112_13.0426.C17
Gene No.	115077	Strand	-
Start	1	End	4532
Name	OJ000112_13.0426.C17.o1.tc	Method	TBLASTX:Cress
Start	6	End	1660
GI	none	Score	201
Exons	6..233, 8..241, 257..382, 258..380, 383..532, 462..590, 629..685, 776..1057, 786..1052, 1079..1252, 1080..1253, 1259..1318, 1412..1660		

Seq. No.	54870	Seq. ID	OJ000112_13.0426.C17
Gene No.	115077	Strand	-
Start	1	End	4532
Name	OJ000112_13.0426.C17.o1.ts	Method	TBLASTX:Soybean
Start	8	End	1660
GI	none	Score	169
Exons	8..244, 9..230, 246..380, 257..394, 357..446, 383..535, 638..772, 785..1057, 786..1058, 1079..1252, 1080..1244, 1226..1318, 1260..1319, 1475..1660		

Seq. No.	54870	Seq. ID	OJ000112_13.0426.C17
Gene No.	115077	Strand	-
Start	1	End	4532
Name	OJ000112_13.0426.C17.o2.tw	Method	TBLASTX:Wheat
Start	8	End	209
GI	none	Score	133
Exons	8..202, 9..203, 108..209		

Seq. No.	54870	Seq. ID	OJ000112_13.0426.C17
Gene No.	115077	Strand	-
Start	1	End	4532
Name	OJ000112_13.0426.C17.o2.tm	Method	TBLASTX:Maize
Start	74	End	422

GI	none	Score	144
Exons	74..244, 80..244, 81..248, 99..257, 216..422, 233..421		

Seq. No.	54870	Seq. ID	OJ000112_13.0426.C17
Gene No.	115077	Strand	-
Start	1	End	4532
Name	OJ000112_13.0426.C17.o1.tw	Method	TBLASTX:Wheat
Start	629	End	1154
GI	none	Score	178
Exons	629..781, 782..997, 786..1022, 980..1057, 981..1058, 1015..1062, 1076..1153, 1080..1154		

Seq. No.	54870	Seq. ID	OJ000112_13.0426.C17
Gene No.	115077	Strand	-
Start	1	End	4532
Name	OJ000112_13.0426.C17.o1.tm	Method	TBLASTX:Maize
Start	776	End	1669
GI	none	Score	218
Exons	776..1057, 786..1058, 1079..1252, 1080..1238, 1259..1318, 1322..1396, 1418..1474, 1466..1669		

Seq. No.	54870	Seq. ID	OJ000112_13.0426.C17
Gene No.	115077	Strand	-
Start	1	End	4532
Name	OJ000112_13.0426.C17.o2.np	Method	AAT/NAP
Start	1965	End	4532
GI	5295955	Score	1187
Exons	1965..2532, 2572..2638, 2718..3124, 3805..3919, 4463..4532		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		

Seq. No.	54871	Seq. ID	OJ000112_13.0426.C18
Gene No.	115078	Strand	+
Start	449	End	591
Name	OJ000112_13.0426.C18.o1.gp	Method	AAT/GAP
Start	449	End	591
GI	21474_1_R1084	Score	229
Exons	449..591		
GI Descrip.	'3894159 2.0e-10 (AC005312) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	54871	Seq. ID	OJ000112_13.0426.C18
Gene No.	115079	Strand	+
Start	492	End	614
Name	OJ000112_13.0426.C18.o1.np	Method	AAT/NAP
Start	492	End	614
GI	7106528	Score	100
Exons	492..614		
GI Descrip.	(AP001278) EST D40774(S2920) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	54871	Seq. ID	OJ000112_13.0426.C18
Gene No.	115080	Strand	-
Start	1	End	4038
Name	OJ000112_13.0426.C18.o3.np	Method	AAT/NAP
Start	1	End	3193
GI	4680204	Score	301

Exons	1..46, 2443..3193		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	54871	Seq. ID	OJ000112_13.0426.C18
Gene No.	115080	Strand	-
Start	1	End	4038
Name	OJ000112_13.0426.C18.o2.np	Method	AAT/NAP
Start	487	End	3193
GI	4680204	Score	308
Exons	487..529, 2364..3193		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	54871	Seq. ID	OJ000112_13.0426.C18
Gene No.	115080	Strand	-
Start	1	End	4038
Name	OJ000112_13.0426.C18.o2.gp	Method	AAT/GAP
Start	672	End	4038
GI	LIB3477-003-P1-K1-E9	Score	125
Exons	672..715, 3983..4038		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	54871	Seq. ID	OJ000112_13.0426.C18
Gene No.	115080	Strand	-
Start	1	End	4038
Name	OJ000112_13.0426.C18.o1.gs	Method	GENSCAN
Start	917	End	3178
GI	none	Score	.72
Exons	917..1102, 1182..1280, 1375..1447, 1532..1642, 1739..1912, 2022..3178		

Seq. No.	54871	Seq. ID	OJ000112_13.0426.C18
Gene No.	115080	Strand	-
Start	1	End	4038
Name	OJ000112_13.0426.C18.o4.np	Method	AAT/NAP
Start	1054	End	3193
GI	4680204	Score	307
Exons	1054..1078, 2452..3193		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	54871	Seq. ID	OJ000112_13.0426.C18
Gene No.	115081	Strand	-
Start	4050	End	4593
Name	OJ000112_13.0426.C18.o2.gs	Method	GENSCAN
Start	4050	End	4593
GI	none	Score	.6
Exons	4050..4489, 4495..4593		

Seq. No.	54872	Seq. ID	OJ000112_13.0426.C19
Gene No.	115082	Strand	-
Start	1	End	3490
Name	OJ000112_13.0426.C19.o1.gp	Method	AAT/GAP
Start	1	End	3490
GI	342_1.R1084	Score	5833
Exons	1..324, 434..538, 657..3490		
GI Descrip.	'4574406/gb|AAD24042.1| 0.0e+00 (AF121139) RIM2 protein [Oryza		

sativa]'

Seq. No.	54872	Seq. ID	OJ000112_13.0426.C19
Gene No.	115082	Strand	-
Start	1	End	3490
Name	OJ000112_13.0426.C19.o1.gs	Method	GENSCAN
Start	741	End	3430
GI	none	Score	.7
Exons	741..1469, 1475..2753, 2783..2955, 3258..3430		

Seq. No.	54872	Seq. ID	OJ000112_13.0426.C19
Gene No.	115082	Strand	-
Start	1	End	3490
Name	OJ000112_13.0426.C19.o1.tw	Method	TBLASTX:Wheat
Start	816	End	2132
GI	none	Score	131
Exons	816..908, 897..977, 990..1130, 991..1131, 1078..1173, 1110..1169, 1176..1220, 1181..1216, 1215..1466, 1231..1467, 1247..1480, 1474..1647, 1481..2131, 1503..2132, 1509..2132		

Seq. No.	54872	Seq. ID	OJ000112_13.0426.C19
Gene No.	115082	Strand	-
Start	1	End	3490
Name	OJ000112_13.0426.C19.o1.np	Method	AAT/NAP
Start	1300	End	3257
GI	6742729	Score	3148
Exons	1300..3257		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	54872	Seq. ID	OJ000112_13.0426.C19
Gene No.	115082	Strand	-
Start	1	End	3490
Name	OJ000112_13.0426.C19.o1.tc	Method	TBLASTX:Cress
Start	1398	End	1848
GI	none	Score	136
Exons	1398..1466, 1474..1647, 1481..1840, 1484..1834, 1503..1844, 1509..1844, 1666..1848		

Seq. No.	54872	Seq. ID	OJ000112_13.0426.C19
Gene No.	115082	Strand	-
Start	1	End	3490
Name	OJ000112_13.0426.C19.o1.tm	Method	TBLASTX:Maize
Start	1775	End	2089
GI	none	Score	67
Exons	1775..2005, 1775..2089, 1803..2078		

Seq. No.	54872	Seq. ID	OJ000112_13.0426.C19
Gene No.	115082	Strand	-
Start	1	End	3490
Name	OJ000112_13.0426.C19.o3.tw	Method	TBLASTX:Wheat
Start	2133	End	2543
GI	none	Score	81
Exons	2133..2219, 2135..2224, 2135..2218, 2252..2470, 2292..2474, 2480..2542, 2493..2543		

Seq. No.	54872	Seq. ID	OJ000112_13.0426.C19
Gene No.	115082	Strand	-

Start	1	End	3490
Name	OJ000112_13.0426.C19.o2.ts	Method	TBLASTX:Soybean
Start	2576	End	2788
GI	none	Score	180
Exons	2576..2788		

Seq. No.	54872	Seq. ID	OJ000112_13.0426.C19
Gene No.	115082	Strand	-
Start	1	End	3490
Name	OJ000112_13.0426.C19.o2.tw	Method	TBLASTX:Wheat
Start	2682	End	3149
GI	none	Score	83
Exons	2682..2786, 2682..2786, 2687..2788, 2698..2796, 2786..2887, 2786..2890, 2788..2889, 2788..2910, 2890..2976, 2891..2977, 2991..3095, 2995..3084, 3096..3149, 3097..3141		

Seq. No.	54872	Seq. ID	OJ000112_13.0426.C19
Gene No.	115082	Strand	-
Start	1	End	3490
Name	OJ000112_13.0426.C19.o2.tm	Method	TBLASTX:Maize
Start	2893	End	3278
GI	none	Score	126
Exons	2893..2976, 2970..3173, 2971..3150, 3189..3278		

Seq. No.	54872	Seq. ID	OJ000112_13.0426.C19
Gene No.	115082	Strand	-
Start	1	End	3490
Name	OJ000112_13.0426.C19.o2.tc	Method	TBLASTX:Cress
Start	2970	End	3285
GI	none	Score	72
Exons	2970..3278, 2998..3093, 3133..3285		

Seq. No.	54872	Seq. ID	OJ000112_13.0426.C19
Gene No.	115082	Strand	-
Start	1	End	3490
Name	OJ000112_13.0426.C19.o1.ts	Method	TBLASTX:Soybean
Start	3018	End	3447
GI	none	Score	123
Exons	3018..3314, 3036..3260, 3309..3371, 3364..3447, 3372..3446		

Seq. No.	54872	Seq. ID	OJ000112_13.0426.C19
Gene No.	115082	Strand	-
Start	1	End	3490
Name	OJ000112_13.0426.C19.o4.tw	Method	TBLASTX:Wheat
Start	3159	End	3486
GI	none	Score	45
Exons	3159..3278, 3220..3282, 3303..3374, 3304..3351, 3360..3485, 3364..3486		

Seq. No.	54873	Seq. ID	OJ000112_13.0426.C21
Gene No.	115083	Strand	+
Start	391	End	461
Name	OJ000112_13.0426.C21.o1.gs	Method	GENSCAN
Start	391	End	461
GI	none	Score	.99
Exons	391..461		

Seq. No.	54874	Seq. ID	OJ000112_18.0426.C1
Gene No.	115084	Strand	+
Start	794	End	1161
Name	OJ000112_18.0426.C1.o1.np	Method	AAT/NAP
Start	794	End	1161
GI	7488744	Score	68
Exons	794..944, 1035..1161		
GI Descrip.	MADS-box protein - alfalfa (fragment) gi|1928874|gb|AAB51377.1| (U91964) MADS-box protein [Medicago sativa]		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115085	Strand	+
Start	270	End	1107
Name	OJ000112_18.0426.C2.o1.gs	Method	GENSCAN
Start	270	End	1107
GI	none	Score	.9
Exons	270..525, 739..872, 956..1107		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115086	Strand	+
Start	2820	End	8522
Name	OJ000112_18.0426.C2.o2.gs	Method	GENSCAN
Start	2820	End	8222
GI	none	Score	.88
Exons	2820..2899, 3865..3958, 5202..5363, 5566..5616, 6146..6210, 6435..6509, 6653..6830, 7221..7403, 7486..7599, 7677..7786, 7876..7954, 8085..8222		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115086	Strand	+
Start	2820	End	8522
Name	OJ000112_18.0426.C2.o2.gp	Method	AAT/GAP
Start	3843	End	8522
GI	1901_1.R1084	Score	2769
Exons	3843..3958, 5202..5363, 5566..5616, 6146..6210, 6435..6509, 6653..6830, 7221..7403, 7486..7599, 7677..7786, 7876..7954, 8085..8522		
GI Descrip.	'1488297 1.0e-110 (U63530) osRAD23 [Oryza sativa]'		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115086	Strand	+
Start	2820	End	8522
Name	OJ000112_18.0426.C2.o2.np	Method	AAT/NAP
Start	3893	End	8210
GI	7446462	Score	1044
Exons	3893..3958, 5202..5363, 5563..5616, 6146..6210, 6438..6509, 6656..6830, 7221..7253, 7299..7403, 7486..7599, 7677..7786, 7873..7954, 8085..8210		
GI Descrip.	RAD23 protein homolog - rice gi|1488297|gb|AAB65841.1| (U63530) osRAD23 [Oryza sativa]		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115087	Strand	+
Start	15852	End	17962
Name	OJ000112_18.0426.C2.o4.gs	Method	GENSCAN
Start	15852	End	17962
GI	none	Score	.53

Exons	15852..15903, 15939..16013, 16131..16412, 17096..17263, 17514..17962		
Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115087	Strand	+
Start	15852	End	17962
Name	OJ000112_18.0426.C2.o3.np	Method	AAT/NAP
Start	16304	End	17689
GI	6539555	Score	1151
Exons	16304..16781, 17114..17313, 17380..17689		
GI Descrip.	(AP000836) Similar to mariner transposase (AF078934) [Oryza sativa] gi|6539592|dbj|BAA88208.1| (AP000837) Similar to mariner transposase (AF078934) [Oryza sativa]		
Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115088	Strand	+
Start	30097	End	68205
Name	OJ000112_18.0426.C2.o6.gs	Method	GENSCAN
Start	30097	End	39153
GI	none	Score	.65
Exons	30097..30191, 30471..30567, 30678..30768, 30791..30993, 31045..31560, 33132..33214, 34813..35011, 35018..35194, 35282..35344, 35394..35520, 36318..36448, 37057..37159, 37617..37919, 38984..39153		
Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115088	Strand	+
Start	30097	End	68205
Name	OJ000112_18.0426.C2.o8.np	Method	AAT/NAP
Start	34937	End	68205
GI	2129478	Score	125
Exons	34937..35148, 41003..41069, 42268..42340, 63397..63496, 68157..68205		
GI Descrip.	chitinase (EC 3.2.1.14) precursor - beet gi|488731|emb|CAA55883| (X79301) chitinase [Beta vulgaris] gi|829258|emb|CAA56946| (X81056) Chitinase [Beta vulgaris]		
Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115088	Strand	+
Start	30097	End	68205
Name	OJ000112_18.0426.C2.o10.np	Method	AAT/NAP
Start	50002	End	50085
GI	6630699	Score	85
Exons	50002..50085		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein [Oryza sativa]		
Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115088	Strand	+
Start	30097	End	68205
Name	OJ000112_18.0426.C2.o9.gs	Method	GENSCAN
Start	54929	End	61197
GI	none	Score	.56
Exons	54929..55122, 55218..55325, 56415..56480, 57015..57069, 57176..57301, 57661..58377, 58464..58608, 58783..59282, 60042..60067, 60437..60570, 60623..60704, 61047..61197		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115088	Strand	+
Start	30097	End	68205
Name	OJ000112_18.0426.C2.o10.gp	Method	AAT/GAP
Start	56971	End	57308
GI	4969157	Score	361
Exons	56971..57069, 57176..57308		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115088	Strand	+
Start	30097	End	68205
Name	OJ000112_18.0426.C2.o12.np	Method	AAT/NAP
Start	57213	End	59991
GI	5734720	Score	560
Exons	57213..57258, 57687..58372, 58456..58674, 58783..59180, 59908..59991		
GI Descrip.	(AC008075) Contains PF|01426 BAH (bromo-adjacent homology) domain. ESTs gb|N96349, gb|T42710, gb|H77084, gb|AA395147 and gb|AA605500 come from this gene. [Arabidopsis thaliana]		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115088	Strand	+
Start	30097	End	68205
Name	OJ000112_18.0426.C2.o11.gp	Method	AAT/GAP
Start	57936	End	59008
GI	4951_1.R1084	Score	1646
Exons	57936..58377, 58464..58674, 58783..59008		
GI Descrip.	'5734720/gb|AAD49985.1|AC008075_18 6.0e-45 (AC008075) Contains PF_01426 BAH (bromo-adjacent homology) domain. ESTs gb_N96349, gb_T42710, gb_H77084, gb_AA395147 and gb_AA605500 come from this gene. [Arabidopsis thaliana]'		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115088	Strand	+
Start	30097	End	68205
Name	OJ000112_18.0426.C2.o10.gs	Method	GENSCAN
Start	62122	End	65782
GI	none	Score	.8
Exons	62122..63623, 63704..63894, 63988..64223, 64298..64951, 65723..65782		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115089	Strand	-
Start	1176	End	1627
Name	OJ000112_18.0426.C2.o1.gp	Method	AAT/GAP
Start	1176	End	1627
GI	none	Score	896
Exons	1176..1627		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115090	Strand	-
Start	9497	End	15033
Name	OJ000112_18.0426.C2.o3.gs	Method	GENSCAN
Start	9497	End	15033
GI	none	Score	.61
Exons	9497..9552, 9723..9943, 10048..10133, 10365..10455,		

10549..10857, 10938..11035, 11821..12074, 13076..13190,
14438..14484, 14775..14896, 14954..15033

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115090	Strand	-
Start	9497	End	15033
Name	OJ000112_18.0426.C2.o3.gp	Method	AAT/GAP
Start	10762	End	12041
GI	none	Score	748
Exons	10762..10857, 10938..11035, 11821..12041		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115091	Strand	-
Start	18630	End	31719
Name	OJ000112_18.0426.C2.o5.gs	Method	GENSCAN
Start	18630	End	29863
GI	none	Score	.72
Exons	18630..18883, 19510..19561, 19875..19991, 20444..20566, 20750..20828, 20917..21296, 22366..22697, 24684..24789, 25015..25086, 25195..25302, 25376..25450, 25758..25845, 26883..27114, 27138..27307, 28188..28318, 28959..29015, 29097..29207, 29341..29431, 29781..29863		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115091	Strand	-
Start	18630	End	31719
Name	OJ000112_18.0426.C2.o4.gp	Method	AAT/GAP
Start	19375	End	22440
GI	358_1.R1084	Score	2286
Exons	19375..19781, 19875..19991, 20444..20566, 20750..20828, 20917..21328, 22366..22440		
GI Descrip.	'1519251 1.0e-142 (U65957) GF14-c protein [Oryza sativa]'		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115091	Strand	-
Start	18630	End	31719
Name	OJ000112_18.0426.C2.o4.np	Method	AAT/NAP
Start	19725	End	21308
GI	7435022	Score	1170
Exons	19725..19781, 19875..19991, 20444..20566, 20750..20828, 20917..21308		
GI Descrip.	GF14-c protein - rice gi|1519251|gb|AAB07457.1| (U65957) GF14-c protein [Oryza sativa]		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115091	Strand	-
Start	18630	End	31719
Name	OJ000112_18.0426.C2.o5.np	Method	AAT/NAP
Start	24505	End	25632
GI	7485223	Score	269
Exons	24505..24567, 25015..25086, 25195..25302, 25376..25632		
GI Descrip.	hypothetical protein A_IG002N01.18 - Arabidopsis thaliana gi|2191138|gb|AAB61025.1| (AF007269) A_IG002N01.18 gene product [Arabidopsis thaliana] gi|7267612|emb|CAB80924.1| (AL161491) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2

Gene No.	115091	Strand	-
Start	18630	End	31719
Name	OJ000112_18.0426.C2.o5.gp	Method	AAT/GAP
Start	25198	End	27199
GI	uC-osflcyp017g02b1	Score	722
Exons	25198..25302, 25376..25476, 26883..27035, 27138..27199		
GI Descrip.	'2191138 8.0e-09 (AF007269) A_IG002N01.18 gene product [Arabidopsis thaliana]'		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115091	Strand	-
Start	18630	End	31719
Name	OJ000112_18.0426.C2.o6.gp	Method	AAT/GAP
Start	27994	End	29213
GI	uC-osflcyp029c03b1	Score	938
Exons	27994..28318, 28959..29015, 29097..29213		
GI Descrip.	'4557026/ref|NP_003913.1|pHERC1| 8.0e-18 guanine nucleotide exchange factor p532 >gi_1477565 (U50078) p532 [Homo sapiens]'		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115091	Strand	-
Start	18630	End	31719
Name	OJ000112_18.0426.C2.o6.np	Method	AAT/NAP
Start	28127	End	31472
GI	6957714	Score	896
Exons	28127..28318, 29097..29207, 29341..29394, 29781..29978, 30919..30990, 31087..31197, 31289..31472		
GI Descrip.	(AC021640) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115091	Strand	-
Start	18630	End	31719
Name	OJ000112_18.0426.C2.o7.gp	Method	AAT/GAP
Start	31105	End	31719
GI	2312025	Score	701
Exons	31105..31197, 31289..31433, 31527..31719		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115092	Strand	-
Start	33478	End	34903
Name	OJ000112_18.0426.C2.o7.np	Method	AAT/NAP
Start	33478	End	34903
GI	5852084	Score	73
Exons	33478..33565, 34882..34903		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115093	Strand	-
Start	37773	End	38143
Name	OJ000112_18.0426.C2.o8.gp	Method	AAT/GAP
Start	37773	End	38143
GI	uC-osflM202085g09a1	Score	742
Exons	37773..38143		
GI Descrip.	'1420932/gb|U61383|ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence'		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2

Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o10.ts	Method	TBLASTX:Soybean
Start	263	End	849
GI	none	Score	213
Exons	263..526, 310..420, 731..847,	736..849	

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o7.tm	Method	TBLASTX:Maize
Start	352	End	1296
GI	none	Score	190
Exons	352..432, 353..526, 384..518, 410..574, 735..815, 736..876, 737..880, 956..1027, 957..1025, 958..1032, 1029..1064, 1030..1074, 1056..1118, 1056..1118, 1057..1128, 1203..1220, 1264..1296		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o5.tw	Method	TBLASTX:Wheat
Start	3892	End	5357
GI	none	Score	87
Exons	3892..3960, 3893..3961, 5199..5357, 5199..5354, 5201..5356		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o9.tm	Method	TBLASTX:Maize
Start	3892	End	6830
GI	none	Score	98
Exons	3892..3960, 3893..3961, 5199..5357, 5201..5356, 6640..6807, 6651..6830, 6653..6826		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o11.ts	Method	TBLASTX:Soybean
Start	3893	End	5369
GI	none	Score	69
Exons	3893..3952, 5202..5369, 5207..5359		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o8.tc	Method	TBLASTX:Cress
Start	3893	End	5363
GI	none	Score	71
Exons	3893..3961, 5202..5363, 5202..5354		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o3.ts	Method	TBLASTX:Soybean
Start	6656	End	8192
GI	none	Score	271

Exons	6656..6835, 6657..6830, 6663..6857, 6668..6832, 7349..7399, 7353..7412, 7501..7599, 7502..7597, 7509..7604, 7671..7796, 7673..7789, 7674..7796, 7874..7936, 7877..7966, 8082..8192, 8087..8173		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o4.tc	Method	TBLASTX:Cress
Start	6708	End	8192
GI	none	Score	171
Exons	6708..6857, 6713..6826, 6721..6858, 6729..6857, 7362..7412, 7367..7399, 7489..7599, 7491..7604, 7671..7802, 7673..7798, 7876..7977, 7877..7957, 8082..8192, 8084..8173		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o7.tw	Method	TBLASTX:Wheat
Start	6708	End	7412
GI	none	Score	189
Exons	6708..6830, 6710..6826, 7343..7408, 7353..7412		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o5.tm	Method	TBLASTX:Maize
Start	7364	End	8192
GI	none	Score	82
Exons	7364..7405, 7365..7412, 7488..7598, 7489..7599, 7671..7784, 7672..7791, 7673..7792, 7898..7957, 7912..7953, 8073..8192, 8085..8159, 8087..8173, 8095..8184		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o2.tw	Method	TBLASTX:Wheat
Start	7496	End	8192
GI	none	Score	102
Exons	7496..7597, 7498..7599, 7509..7604, 7669..7755, 7671..7787, 7673..7786, 7876..7977, 7877..7957, 8082..8192, 8084..8173		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o8.tw	Method	TBLASTX:Wheat
Start	17468	End	17746
GI	none	Score	188
Exons	17468..17746, 17546..17692		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o3.tm	Method	TBLASTX:Maize
Start	19713	End	21317
GI	none	Score	66
Exons	19713..19811, 19723..19815, 19873..20004, 19875..20006,		

20444..20566, 20445..20567, 20735..20830, 20748..20831,
20749..20832, 20750..20830, 20914..21300, 20915..21310,
20916..21317

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o1.tc	Method	TBLASTX:Cress
Start	19725	End	21310
GI	none	Score	137

Exons 19725..19781, 19873..20004, 19878..19994, 19882..19995,
20444..20566, 20445..20567, 20457..20567, 20748..20831,
20750..20830, 20916..21305, 20917..21177, 21011..21310,
21098..21304

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o1.ts	Method	TBLASTX:Soybean
Start	19873	End	21333
GI	none	Score	140

Exons 19873..20004, 19875..20006, 20444..20566, 20445..20567,
20748..20831, 20750..20830, 20916..21305, 20917..21306,
21143..21325, 21211..21333

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o6.tw	Method	TBLASTX:Wheat
Start	19881	End	20588
GI	none	Score	135

Exons 19881..19994, 19882..19992, 19885..20007, 20442..20540,
20443..20541, 20444..20575, 20444..20566, 20448..20588

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o1.tw	Method	TBLASTX:Wheat
Start	20914	End	21305
GI	none	Score	327

Exons 20914..21297, 20916..21305, 20918..21298, 20919..21299,
20923..21303

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o8.ts	Method	TBLASTX:Soybean
Start	24505	End	25305
GI	none	Score	73

Exons 24505..24582, 25004..25087, 25015..25086, 25192..25305,
25199..25303

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o11.tm	Method	TBLASTX:Maize
Start	25004	End	25326

GI	none	Score	83
Exons	25004..25087, 25015..25086, 25192..25326, 25199..25303, 25207..25305		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o7.tc	Method	TBLASTX:Cress
Start	25004	End	25335
GI	none	Score	67
Exons	25004..25087, 25015..25086, 25192..25335, 25199..25303		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o4.tm	Method	TBLASTX:Maize
Start	28121	End	31435
GI	none	Score	79
Exons	28121..28201, 28151..28183, 28164..28205, 28232..28318, 28233..28304, 28238..28318, 28283..28318, 28960..29052, 28965..29021, 29051..29218, 29094..29255, 29163..29243, 29331..29393, 29335..29394, 29336..29395, 29339..29404, 29769..29981, 29778..29981, 29779..29982, 29802..29984, 29835..29930, 29844..29963, 29844..29927, 29872..29985, 30058..30144, 30059..30145, 30079..30144, 30079..30144, 30696..30767, 30699..30824, 30703..30825, 30808..30843, 30922..30987, 30928..30993, 30929..30994, 30929..30994, 31063..31200, 31087..31200, 31091..31195, 31286..31432, 31293..31325, 31379..31435		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o4.tw	Method	TBLASTX:Wheat
Start	28136	End	31200
GI	none	Score	70
Exons	28136..28219, 28136..28198, 28140..28235, 28145..28183, 28164..28235, 28206..28277, 28206..28301, 28213..28302, 28214..28318, 28238..28318, 28283..28318, 28958..29017, 28960..29022, 28963..29019, 29051..29212, 29094..29255, 29163..29243, 29331..29393, 29335..29394, 29336..29395, 29339..29407, 29835..29930, 30079..30144, 30079..30144, 30922..30987, 30923..30988, 31063..31200		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o4.ts	Method	TBLASTX:Soybean
Start	28965	End	31432
GI	none	Score	38
Exons	28965..29018, 29844..29939, 29844..29927, 29955..29981, 29956..29985, 30056..30145, 30058..30144, 30699..30824, 30703..30825, 30928..30993, 30929..30991, 31087..31149, 31132..31200, 31136..31198, 31286..31321, 31379..31432		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-

Start	45315	End	71936
Name	OJ000112_18.0426.C2.o9.np	Method	AAT/NAP
Start	45315	End	49947
GI	5922620	Score	339
Exons	45315..45467, 45745..45801, 46717..46960, 47092..47258, 49805..49869, 49909..49947		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6016853|dbj|BAA85196.1| (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o14.np	Method	AAT/NAP
Start	47059	End	71936
GI	5080823	Score	143
Exons	47059..47077, 49016..49087, 55083..55211, 68481..68765, 68928..69163, 70148..70361, 71907..71936		
GI Descrip.	(AC007258) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o11.np	Method	AAT/NAP
Start	50224	End	51994
GI	5922620	Score	157
Exons	50224..50357, 51970..51994		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6016853|dbj|BAA85196.1| (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o9.gp	Method	AAT/GAP
Start	53893	End	53951
GI	2312838	Score	73
Exons	53893..53951		
GI Descrip.	1420932/gb|U61383|ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o8.tm	Method	TBLASTX:Maize
Start	57178	End	57883
GI	none	Score	134
Exons	57178..57303, 57179..57304, 57200..57337, 57201..57308, 57649..57882, 57659..57883		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936

Name	OJ000112_18.0426.C2.o6.ts	Method	TBLASTX:Soybean
Start	57809	End	58880
GI	none	Score	101
Exons	57809..57922, 57814..58044, 57816..57962, 57817..58062, 58228..58356, 58236..58361, 58458..58541, 58462..58545, 58463..58540, 58559..58675, 58574..58642, 58575..58712, 58770..58880		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o1.tm	Method	TBLASTX:Maize
Start	57931	End	59388
GI	none	Score	275
Exons	57931..58143, 57940..58137, 57942..58169, 58043..58174, 58221..58379, 58222..58377, 58230..58379, 58232..58381, 58442..58675, 58458..58676, 58770..58904, 58780..58944, 58780..58926, 58972..59034, 59007..59084, 59032..59133, 59062..59139, 59069..59170, 59185..59283, 59186..59266, 59190..59273, 59265..59306, 59346..59384, 59364..59387, 59371..59388		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o6.tc	Method	TBLASTX:Cress
Start	58240	End	58630
GI	none	Score	141
Exons	58240..58377, 58248..58379, 58458..58541, 58553..58630, 58581..58628		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o12.gp	Method	AAT/GAP
Start	59202	End	59729
GI	3113_1.R1084	Score	1029
Exons	59202..59729		
GI Descrip.	'5881963/gb|AAD55139.1|AF066079_1 1.0e-12 (AF066079) dihydrolipoamide S-acetyltransferase [Arabidopsis thaliana]'		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o6.tm	Method	TBLASTX:Maize
Start	64013	End	64513
GI	none	Score	202
Exons	64013..64240, 64014..64229, 64300..64509, 64301..64513		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o5.tc	Method	TBLASTX:Cress
Start	64044	End	64524
GI	none	Score	117
Exons	64044..64229, 64296..64508, 64300..64509, 64301..64516, 64330..64524		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o7.ts	Method	TBLASTX:Soybean
Start	64300	End	64572
GI	none	Score	255
Exons	64300..64572, 64301..64549		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o9.ts	Method	TBLASTX:Soybean
Start	64676	End	64924
GI	none	Score	227
Exons	64676..64924		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o13.gp	Method	AAT/GAP
Start	65631	End	67321
GI	3768201	Score	700
Exons	65631..65976, 67275..67321		
GI Descrip.	5881963/gb|AAD55139.1|AF066079_1 1.0e-12 (AF066079) dihydrolipoamide S-acetyltransferase [Arabidopsis thaliana]		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o3.tw	Method	TBLASTX:Wheat
Start	65793	End	67646
GI	none	Score	162
Exons	65793..65972, 65857..65976, 65858..65977, 67263..67361, 67269..67361, 67453..67524, 67455..67526, 67455..67541, 67456..67542, 67605..67646, 67610..67645		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o2.tc	Method	TBLASTX:Cress
Start	65855	End	68231
GI	none	Score	128
Exons	65855..65977, 65869..65976, 67269..67361, 67273..67362, 67455..67535, 67459..67527, 67608..67700, 67610..67702, 67775..67885, 67786..67833, 67832..67981, 67834..67980, 68085..68231, 68116..68208, 68127..68210		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o2.tm	Method	TBLASTX:Maize
Start	65863	End	68685
GI	none	Score	89
Exons	65863..65976, 65879..65977, 67269..67358, 67278..67349, 67458..67520, 67458..67535, 67459..67527, 67605..67700, 67608..67694, 67610..67702, 67613..67702, 67766..67978,		

67770..67976, 67786..67980, 67789..67980, 68085..68255, 68116..68208, 68127..68255, 68332..68442, 68334..68456, 68550..68684, 68626..68685

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o2.ts	Method	TBLASTX:Soybean
Start	65872	End	68444
GI	none	Score	90
Exons	65872..65976, 65876..65977, 67269..67358, 67270..67359, 67458..67490, 67459..67491, 67491..67535, 67608..67688, 67610..67702, 67766..67978, 67786..67980, 67789..67983, 68085..68255, 68131..68211, 68331..68444, 68332..68442		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o13.np	Method	AAT/NAP
Start	65875	End	69008
GI	5881963	Score	1366
Exons	65875..65976, 67275..67358, 67455..67525, 67612..67699, 67789..67980, 68088..69008		
GI Descrip.	(AF066079) dihydrolipoamide S-acetyltransferase [Arabidopsis thaliana]		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o11.gs	Method	GENSCAN
Start	66631	End	71846
GI	none	Score	.41
Exons	66631..67043, 67612..67750, 67789..67980, 68088..69108, 69159..69315, 69537..69898, 70247..70365, 70896..71291, 71811..71846		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o3.tc	Method	TBLASTX:Cress
Start	68556	End	68843
GI	none	Score	116
Exons	68556..68843, 68626..68835		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o5.ts	Method	TBLASTX:Soybean
Start	68598	End	68843
GI	none	Score	72
Exons	68598..68843, 68626..68688, 68685..68816, 68782..68835		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o10.tm	Method	TBLASTX:Maize
Start	68688	End	68843

GI	none	Score	153
Exons	68688..68822, 68688..68843		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o14.gp	Method	AAT/GAP
Start	71044	End	71385
GI	25792_1.R1084	Score	645
Exons	71044..71385		
GI Descrip.	'4512233/dbj|AB014743.1|AB014743 0.0e+00 Oryza sativa copia-type retrotransposon RIRE7 DNA, partial sequence'		

Seq. No.	54875	Seq. ID	OJ000112_18.0426.C2
Gene No.	115094	Strand	-
Start	45315	End	71936
Name	OJ000112_18.0426.C2.o15.gp	Method	AAT/GAP
Start	71560	End	71936
GI	2312718	Score	636
Exons	71560..71936		
GI Descrip.	4512233/dbj|AB014743.1|AB014743 1.0e-176 Oryza sativa copia-type retrotransposon RIRE7 DNA, partial sequence		

Seq. No.	54876	Seq. ID	OJ000112_18.0426.C3
Gene No.	115095	Strand	+
Start	8274	End	9198
Name	OJ000112_18.0426.C3.o3.gs	Method	GENSCAN
Start	8274	End	8912
GI	none	Score	.83
Exons	8274..8682, 8758..8912		

Seq. No.	54876	Seq. ID	OJ000112_18.0426.C3
Gene No.	115095	Strand	+
Start	8274	End	9198
Name	OJ000112_18.0426.C3.o2.gp	Method	AAT/GAP
Start	8423	End	9198
GI	34533_1.R1084	Score	1325
Exons	8423..8682, 8758..9198		
GI Descrip.	'2245001/emb|CAB10421.1| 4.0e-43 (Z97341) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	54876	Seq. ID	OJ000112_18.0426.C3
Gene No.	115095	Strand	+
Start	8274	End	9198
Name	OJ000112_18.0426.C3.o2.np	Method	AAT/NAP
Start	8529	End	8921
GI	7485078	Score	395
Exons	8529..8682, 8758..8921		
GI Descrip.	hypothetical protein - Arabidopsis thaliana gi|2245001|emb|CAB10421.1| (Z97341) hypothetical protein [Arabidopsis thaliana] gi|7268395|emb|CAB78687.1| (AL161544) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	54876	Seq. ID	OJ000112_18.0426.C3
Gene No.	115096	Strand	+
Start	12840	End	14091
Name	OJ000112_18.0426.C3.o5.gs	Method	GENSCAN

Start	12840	End	14091
GI	none	Score	.93
Exons	12840..12894, 13706..14091		

Seq. No.	54876	Seq. ID	OJ000112_18.0426.C3
Gene No.	115096	Strand	+
Start	12840	End	14091
Name	OJ000112_18.0426.C3.o3.np	Method	AAT/NAP
Start	13115	End	13198
GI	133404	Score	55
Exons	13115..13198		
GI Descrip.	DNA-DIRECTED RNA POLYMERASE ALPHA CHAIN gi|66963|pir||RNRZA DNA-directed RNA polymerase (EC 2.7.7.6) alpha chain - rice chloroplast gi|12018|emb|CAA33979| (X15901) RNA polymerase alpha subunit [Oryza sativa] gi|226639|prf||1603356BN RNA polymerase alpha [Oryza sativa]		

Seq. No.	54876	Seq. ID	OJ000112_18.0426.C3
Gene No.	115097	Strand	+
Start	19224	End	21427
Name	OJ000112_18.0426.C3.o3.gp	Method	AAT/GAP
Start	19224	End	21427
GI	55343_1.R1084	Score	1562
Exons	19224..19483, 20852..21427		
GI Descrip.	'5042437/gb|AC007789.1|AC007789 8.0e-24 Oryza sativa BAC T49B20 genomic sequence, complete sequence'		

Seq. No.	54876	Seq. ID	OJ000112_18.0426.C3
Gene No.	115098	Strand	+
Start	24182	End	28357
Name	OJ000112_18.0426.C3.o7.gs	Method	GENSCAN
Start	24182	End	28357
GI	none	Score	.69
Exons	24182..24195, 24529..24675, 25897..25945, 27917..27978, 28258..28357		

Seq. No.	54876	Seq. ID	OJ000112_18.0426.C3
Gene No.	115099	Strand	-
Start	827	End	7525
Name	OJ000112_18.0426.C3.o1.np	Method	AAT/NAP
Start	672	End	7525
GI	7228438	Score	3155
Exons	672..1074, 2393..2543, 2636..2897, 3002..3300, 3381..3788, 3874..3975, 5545..7525		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog (AC003981) [Oryza sativa]		

Seq. No.	54876	Seq. ID	OJ000112_18.0426.C3
Gene No.	115099	Strand	-
Start	827	End	7525
Name	OJ000112_18.0426.C3.o1.gs	Method	GENSCAN
Start	827	End	5709
GI	none	Score	.61
Exons	827..973, 1649..2098, 2249..2389, 2436..2543, 2636..2897, 3002..3300, 3381..3499, 3533..3794, 3851..4068, 4092..4246, 4322..4475, 4926..5265, 5284..5709		

Seq. No.	54876	Seq. ID	OJ000112_18.0426.C3
Gene No.	115099	Strand	-
Start	827	End	7525
Name	OJ000112_18.0426.C3.o2.gs	Method	GENSCAN
Start	6513	End	7462
GI	none	Score	.65
Exons	6513..7145, 7166..7276, 7409..7462		

Seq. No.	54876	Seq. ID	OJ000112_18.0426.C3
Gene No.	115100	Strand	-
Start	10505	End	10893
Name	OJ000112_18.0426.C3.o4.gs	Method	GENSCAN
Start	10505	End	10893
GI	none	Score	.64
Exons	10505..10528, 10744..10893		

Seq. No.	54876	Seq. ID	OJ000112_18.0426.C3
Gene No.	115101	Strand	-
Start	15126	End	21870
Name	OJ000112_18.0426.C3.o1.tw	Method	TBLASTX:Wheat
Start	5908	End	6282
GI	none	Score	61
Exons	5908..6066, 5919..6059, 6105..6281, 6130..6282		

Seq. No.	54876	Seq. ID	OJ000112_18.0426.C3
Gene No.	115101	Strand	-
Start	15126	End	21870
Name	OJ000112_18.0426.C3.o2.tm	Method	TBLASTX:Maize
Start	6100	End	6578
GI	none	Score	216
Exons	6100..6573, 6111..6578		

Seq. No.	54876	Seq. ID	OJ000112_18.0426.C3
Gene No.	115101	Strand	-
Start	15126	End	21870
Name	OJ000112_18.0426.C3.o1.tm	Method	TBLASTX:Maize
Start	8437	End	8945
GI	none	Score	38
Exons	8437..8460, 8438..8461, 8508..8684, 8525..8686, 8750..8908, 8754..8945		

Seq. No.	54876	Seq. ID	OJ000112_18.0426.C3
Gene No.	115101	Strand	-
Start	15126	End	21870
Name	OJ000112_18.0426.C3.o2.tw	Method	TBLASTX:Wheat
Start	8517	End	8822
GI	none	Score	250
Exons	8517..8756, 8525..8686, 8780..8821, 8781..8822		

Seq. No.	54876	Seq. ID	OJ000112_18.0426.C3
Gene No.	115101	Strand	-
Start	15126	End	21870
Name	OJ000112_18.0426.C3.o1.tc	Method	TBLASTX:Cress
Start	8520	End	8900
GI	none	Score	221
Exons	8520..8684, 8528..8686, 8750..8890, 8754..8900		

Seq. No.	54876	Seq. ID	OJ000112_18.0426.C3
Gene No.	115101	Strand	-
Start	15126	End	21870
Name	OJ000112_18.0426.C3.o1.ts	Method	TBLASTX:Soybean
Start	8523	End	8906
GI	none	Score	240
Exons	8523..8684, 8528..8686, 8750..8899, 8754..8906		

Seq. No.	54876	Seq. ID	OJ000112_18.0426.C3
Gene No.	115101	Strand	-
Start	15126	End	21870
Name	OJ000112_18.0426.C3.o6.gs	Method	GENSCAN
Start	15126	End	21747
GI	none	Score	.43
Exons	15126..15193, 15313..15337, 15788..15891, 16093..16168, 18736..18793, 19406..19472, 21669..21747		

Seq. No.	54876	Seq. ID	OJ000112_18.0426.C3
Gene No.	115101	Strand	-
Start	15126	End	21870
Name	OJ000112_18.0426.C3.o4.gp	Method	AAT/GAP
Start	21599	End	21870
GI	none	Score	528
Exons	21599..21870		

Seq. No.	54877	Seq. ID	OJ000112_18.0426.C4
Gene No.	115102	Strand	-
Start	473	End	592
Name	OJ000112_18.0426.C4.o1.gs	Method	GENSCAN
Start	473	End	592
GI	none	Score	.94
Exons	473..592		

Seq. No.	54878	Seq. ID	OJ000112_18.0426.C6
Gene No.	115103	Strand	+
Start	1584	End	4491
Name	OJ000112_18.0426.C6.o1.gs	Method	GENSCAN
Start	1584	End	4164
GI	none	Score	.48
Exons	1584..1692, 3986..4164		

Seq. No.	54878	Seq. ID	OJ000112_18.0426.C6
Gene No.	115103	Strand	+
Start	1584	End	4491
Name	OJ000112_18.0426.C6.o1.gp	Method	AAT/GAP
Start	4007	End	4491
GI	4714911	Score	901
Exons	4007..4491		

Seq. No.	54878	Seq. ID	OJ000112_18.0426.C6
Gene No.	115104	Strand	-
Start	1	End	5976
Name	OJ000112_18.0426.C6.o1.np	Method	AAT/NAP
Start	1	End	5936
GI	4586018	Score	281
Exons	1..91, 3573..3659, 5755..5936		

GI Descrip. (AC007210) putative MADS-box protein ANR1 [Arabidopsis thaliana]

Seq. No.	54878	Seq. ID	OJ000112_18.0426.C6
Gene No.	115104	Strand	-
Start	1	End	5976
Name	OJ000112_18.0426.C6.o1.tc	Method	TBLASTX:Cress
Start	3578	End	5921
GI	none	Score	107
Exons	3578..3664, 5757..5921, 5761..5895		

Seq. No.	54878	Seq. ID	OJ000112_18.0426.C6
Gene No.	115104	Strand	-
Start	1	End	5976
Name	OJ000112_18.0426.C6.o1.tm	Method	TBLASTX:Maize
Start	3608	End	5921
GI	none	Score	151
Exons	3608..3670, 5755..5895, 5757..5921, 5835..5906		

Seq. No.	54878	Seq. ID	OJ000112_18.0426.C6
Gene No.	115104	Strand	-
Start	1	End	5976
Name	OJ000112_18.0426.C6.o1.ts	Method	TBLASTX:Soybean
Start	5752	End	5921
GI	none	Score	129
Exons	5752..5895, 5754..5921		

Seq. No.	54878	Seq. ID	OJ000112_18.0426.C6
Gene No.	115104	Strand	-
Start	1	End	5976
Name	OJ000112_18.0426.C6.o1.tw	Method	TBLASTX:Wheat
Start	5754	End	5921
GI	none	Score	95
Exons	5754..5921, 5767..5895		

Seq. No.	54878	Seq. ID	OJ000112_18.0426.C6
Gene No.	115104	Strand	-
Start	1	End	5976
Name	OJ000112_18.0426.C6.o2.gs	Method	GENSCAN
Start	5770	End	5976
GI	none	Score	.63
Exons	5770..5976		

Seq. No.	54879	Seq. ID	OJ000322_14.0424.C1
Gene No.	115105	Strand	-
Start	126	End	1185
Name	OJ000322_14.0424.C1.o1.gs	Method	GENSCAN
Start	126	End	1185
GI	none	Score	.62
Exons	126..164, 1078..1185		

Seq. No.	54880	Seq. ID	OJ000322_14.0424.C2
Gene No.	115106	Strand	+
Start	884	End	1889
Name	OJ000322_14.0424.C2.o1.gs	Method	GENSCAN
Start	884	End	1889
GI	none	Score	.72
Exons	884..930, 1735..1889		

Seq. No.	54881	Seq. ID	OJ000322_14.0424.C4
Gene No.	115107	Strand	+
Start	175	End	930
Name	OJ000322_14.0424.C4.o1.gs	Method	GENSCAN
Start	175	End	930
GI	none	Score	.66
Exons	175..612, 767..930		

Seq. No.	54882	Seq. ID	OJ000322_14.0424.C6
Gene No.	115108	Strand	+
Start	575	End	9062
Name	OJ000322_14.0424.C6.o1.np	Method	AAT/NAP
Start	575	End	3200
GI	4680186	Score	359
Exons	575..721, 1310..1479, 3172..3200		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	54882	Seq. ID	OJ000322_14.0424.C6
Gene No.	115108	Strand	+
Start	575	End	9062
Name	OJ000322_14.0424.C6.o1.gs	Method	GENSCAN
Start	1278	End	9062
GI	none	Score	.61
Exons	1278..1304, 1654..1892, 2525..2622, 3010..3194, 3414..3595, 3688..3911, 4000..4886, 5079..5513, 5612..5902, 6204..6485, 7347..7436, 7607..7621, 7874..8290, 8435..8642, 8669..8796, 8844..9062		

Seq. No.	54882	Seq. ID	OJ000322_14.0424.C6
Gene No.	115109	Strand	-
Start	7287	End	9073
Name	OJ000322_14.0424.C6.o2.np	Method	AAT/NAP
Start	7287	End	9073
GI	7489805	Score	1424
Exons	7287..9073		
GI Descrip.	polyprotein - maize retrotransposon Cinful-1 gi|4206306|gb|AAD11615.1| (AF049110) prpol [Zea mays]		

Seq. No.	54882	Seq. ID	OJ000322_14.0424.C6
Gene No.	115109	Strand	-
Start	7287	End	9073
Name	OJ000322_14.0424.C6.o3.tw	Method	TBLASTX:Wheat
Start	7299	End	7891
GI	none	Score	89
Exons	7299..7421, 7548..7745, 7772..7891		

Seq. No.	54882	Seq. ID	OJ000322_14.0424.C6
Gene No.	115109	Strand	-
Start	7287	End	9073
Name	OJ000322_14.0424.C6.o3.tm	Method	TBLASTX:Maize
Start	7338	End	7601
GI	none	Score	85
Exons	7338..7601, 7363..7497		

Seq. No.	54882	Seq. ID	OJ000322_14.0424.C6
Gene No.	115109	Strand	-

Start	7287	End	9073
Name	OJ000322_14.0424.C6.o1.ts	Method	TBLASTX:Soybean
Start	7862	End	8236
GI	none	Score	95
Exons	7862..8086, 8093..8236		

Seq. No.	54882	Seq. ID	OJ000322_14.0424.C6
Gene No.	115109	Strand	-
Start	7287	End	9073
Name	OJ000322_14.0424.C6.o1.tm	Method	TBLASTX:Maize
Start	7877	End	8239
GI	none	Score	249
Exons	7877..8239, 7878..8147		

Seq. No.	54882	Seq. ID	OJ000322_14.0424.C6
Gene No.	115109	Strand	-
Start	7287	End	9073
Name	OJ000322_14.0424.C6.o2.tw	Method	TBLASTX:Wheat
Start	8009	End	8398
GI	none	Score	44
Exons	8009..8398, 8094..8132, 8187..8354		

Seq. No.	54882	Seq. ID	OJ000322_14.0424.C6
Gene No.	115109	Strand	-
Start	7287	End	9073
Name	OJ000322_14.0424.C6.o2.tm	Method	TBLASTX:Maize
Start	8240	End	8506
GI	none	Score	88
Exons	8240..8506, 8241..8399		

Seq. No.	54882	Seq. ID	OJ000322_14.0424.C6
Gene No.	115109	Strand	-
Start	7287	End	9073
Name	OJ000322_14.0424.C6.o1.tw	Method	TBLASTX:Wheat
Start	8706	End	9071
GI	none	Score	137
Exons	8706..9071, 8713..8997		

Seq. No.	54883	Seq. ID	OJ000322_14.0424.C7
Gene No.	115110	Strand	+
Start	4991	End	7012
Name	OJ000322_14.0424.C7.o3.np	Method	AAT/NAP
Start	4991	End	7012
GI	4680184	Score	506
Exons	4991..5858, 5932..7012		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	54883	Seq. ID	OJ000322_14.0424.C7
Gene No.	115111	Strand	+
Start	10435	End	11598
Name	OJ000322_14.0424.C7.o3.gs	Method	GENSCAN
Start	10435	End	11598
GI	none	Score	.79
Exons	10435..10847, 10946..11150, 11155..11598		

Seq. No.	54883	Seq. ID	OJ000322_14.0424.C7
Gene No.	115112	Strand	+

Start	12906	End	16777
Name	OJ000322_14.0424.C7.o4.gs	Method	GENSCAN
Start	12906	End	16777
GI	none	Score	.5
Exons	12906..13059, 13267..13285, 13976..14446, 14567..15893, 15926..16777		

Seq. No.	54883	Seq. ID	OJ000322_14.0424.C7
Gene No.	115113	Strand	+
Start	19620	End	22867
Name	OJ000322_14.0424.C7.o4.np	Method	AAT/NAP
Start	18073	End	22577
GI	7488259	Score	315
Exons	18073..18101, 19746..20068, 20607..21095, 21135..21302, 22521..22577		
GI Descrip.	protein kinase homolog F4I18.11 - Arabidopsis thaliana gi|3386604|gb|AAC28534.1| (AC004665) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	54883	Seq. ID	OJ000322_14.0424.C7
Gene No.	115113	Strand	+
Start	19620	End	22867
Name	OJ000322_14.0424.C7.o5.gs	Method	GENSCAN
Start	19620	End	21323
GI	none	Score	.77
Exons	19620..19666, 19762..20084, 20551..21323		

Seq. No.	54883	Seq. ID	OJ000322_14.0424.C7
Gene No.	115113	Strand	+
Start	19620	End	22867
Name	OJ000322_14.0424.C7.o5.np	Method	AAT/NAP
Start	21559	End	22867
GI	5777617	Score	75
Exons	21559..21588, 22770..22867		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	54883	Seq. ID	OJ000322_14.0424.C7
Gene No.	115114	Strand	+
Start	23093	End	23622
Name	OJ000322_14.0424.C7.o1.gp	Method	AAT/GAP
Start	23093	End	23622
GI	2442584	Score	575
Exons	23093..23311, 23411..23447, 23547..23622		

Seq. No.	54883	Seq. ID	OJ000322_14.0424.C7
Gene No.	115115	Strand	-
Start	1	End	6833
Name	OJ000322_14.0424.C7.o1.np	Method	AAT/NAP
Start	1	End	1614
GI	7489805	Score	1201
Exons	1..1614		
GI Descrip.	polyprotein - maize retrotransposon Cinful-1 gi|4206306|gb|AAD11615.1| (AF049110) prpol [Zea mays]		

Seq. No.	54883	Seq. ID	OJ000322_14.0424.C7
Gene No.	115115	Strand	-
Start	1	End	6833

Name	OJ000322_14.0424.C7.o1.gs	Method	GENSCAN
Start	13	End	834
GI	none	Score	.96
Exons	13..834		

Seq. No.	54883	Seq. ID	OJ000322_14.0424.C7
Gene No.	115115	Strand	-
Start	1	End	6833
Name	OJ000322_14.0424.C7.o2.gs	Method	GENSCAN
Start	1123	End	6833
GI	none	Score	.71
Exons	1123..1704, 1759..1848, 1899..2153, 2416..2498, 2606..2816, 2951..3220, 3255..3391, 3543..3770, 4204..4341, 4987..5150, 5328..5458, 5822..6063, 6104..6414, 6715..6833		

Seq. No.	54883	Seq. ID	OJ000322_14.0424.C7
Gene No.	115116	Strand	-
Start	22668	End	24056
Name	OJ000322_14.0424.C7.o2.tm	Method	TBLASTX:Maize
Start	19	End	297
GI	none	Score	168
Exons	19..297, 20..187		

Seq. No.	54883	Seq. ID	OJ000322_14.0424.C7
Gene No.	115116	Strand	-
Start	22668	End	24056
Name	OJ000322_14.0424.C7.o2.ts	Method	TBLASTX:Soybean
Start	28	End	267
GI	none	Score	84
Exons	28..267, 38..172		

Seq. No.	54883	Seq. ID	OJ000322_14.0424.C7
Gene No.	115116	Strand	-
Start	22668	End	24056
Name	OJ000322_14.0424.C7.o1.tw	Method	TBLASTX:Wheat
Start	37	End	454
GI	none	Score	110
Exons	37..453, 38..187, 40..444, 287..454		

Seq. No.	54883	Seq. ID	OJ000322_14.0424.C7
Gene No.	115116	Strand	-
Start	22668	End	24056
Name	OJ000322_14.0424.C7.o1.tm	Method	TBLASTX:Maize
Start	325	End	682
GI	none	Score	237
Exons	325..681, 326..682		

Seq. No.	54883	Seq. ID	OJ000322_14.0424.C7
Gene No.	115116	Strand	-
Start	22668	End	24056
Name	OJ000322_14.0424.C7.o2.tw	Method	TBLASTX:Wheat
Start	455	End	786
GI	none	Score	225
Exons	455..784, 457..786, 457..786		

Seq. No.	54883	Seq. ID	OJ000322_14.0424.C7
Gene No.	115116	Strand	-

Start	22668	End	24056
Name	OJ000322_14.0424.C7.o3.tw	Method	TBLASTX:Wheat
Start	1015	End	1374
GI	none	Score	107
Exons	1015..1236, 1016..1237, 1243..1374		

Seq. No.	54883	Seq. ID	OJ000322_14.0424.C7
Gene No.	115116	Strand	-
Start	22668	End	24056
Name	OJ000322_14.0424.C7.o4.tw	Method	TBLASTX:Wheat
Start	2161	End	2505
GI	none	Score	183
Exons	2161..2505		

Seq. No.	54883	Seq. ID	OJ000322_14.0424.C7
Gene No.	115116	Strand	-
Start	22668	End	24056
Name	OJ000322_14.0424.C7.o4.tm	Method	TBLASTX:Maize
Start	14918	End	15260
GI	none	Score	115
Exons	14918..15019, 14922..15005, 15105..15260, 15114..15248, 15116..15259		

Seq. No.	54883	Seq. ID	OJ000322_14.0424.C7
Gene No.	115116	Strand	-
Start	22668	End	24056
Name	OJ000322_14.0424.C7.o5.tm	Method	TBLASTX:Maize
Start	15840	End	16297
GI	none	Score	87
Exons	15840..15911, 16028..16297, 16087..16296		

Seq. No.	54883	Seq. ID	OJ000322_14.0424.C7
Gene No.	115116	Strand	-
Start	22668	End	24056
Name	OJ000322_14.0424.C7.o3.tm	Method	TBLASTX:Maize
Start	20586	End	21299
GI	none	Score	251
Exons	20586..20918, 21009..21083, 21156..21299		

Seq. No.	54883	Seq. ID	OJ000322_14.0424.C7
Gene No.	115116	Strand	-
Start	22668	End	24056
Name	OJ000322_14.0424.C7.o1.ts	Method	TBLASTX:Soybean
Start	20604	End	20846
GI	none	Score	235
Exons	20604..20846, 20606..20839		

Seq. No.	54883	Seq. ID	OJ000322_14.0424.C7
Gene No.	115116	Strand	-
Start	22668	End	24056
Name	OJ000322_14.0424.C7.o1.tc	Method	TBLASTX:Cress
Start	20607	End	20873
GI	none	Score	220
Exons	20607..20873		

Seq. No.	54883	Seq. ID	OJ000322_14.0424.C7
Gene No.	115116	Strand	-

Start	22668	End	24056
Name	OJ000322_14.0424.C7.o5.tw	Method	TBLASTX:Wheat
Start	20631	End	20900
GI	none	Score	181
Exons	20631..20900		

Seq. No.	54883	Seq. ID	OJ000322_14.0424.C7
Gene No.	115116	Strand	-
Start	22668	End	24056
Name	OJ000322_14.0424.C7.o6.gs	Method	GENSCAN
Start	22668	End	24056
GI	none	Score	.51
Exons	22668..22764, 23872..24056		

Seq. No.	54884	Seq. ID	OJ000322_14.0424.C8
Gene No.	115117	Strand	+
Start	346	End	1731
Name	OJ000322_14.0424.C8.o1.gs	Method	GENSCAN
Start	346	End	1731
GI	none	Score	.97
Exons	346..820, 1103..1160, 1311..1731		

Seq. No.	54884	Seq. ID	OJ000322_14.0424.C8
Gene No.	115118	Strand	+
Start	4024	End	26145
Name	OJ000322_14.0424.C8.o2.np	Method	AAT/NAP
Start	4024	End	7216
GI	4680501	Score	271
Exons	4024..4123, 5375..6335, 7079..7216		
GI Descrip.	(AF119222) hypothetical protein [Oryza sativa]		

Seq. No.	54884	Seq. ID	OJ000322_14.0424.C8
Gene No.	115118	Strand	+
Start	4024	End	26145
Name	OJ000322_14.0424.C8.o3.gs	Method	GENSCAN
Start	5357	End	16153
GI	none	Score	.47
Exons	5357..6363, 7087..7413, 7672..7903, 8157..8318, 8327..8648, 9671..9738, 10425..10490, 10688..10865, 12686..12804, 12930..13494, 13918..14413, 14508..14589, 15884..16153		

Seq. No.	54884	Seq. ID	OJ000322_14.0424.C8
Gene No.	115118	Strand	+
Start	4024	End	26145
Name	OJ000322_14.0424.C8.o3.np	Method	AAT/NAP
Start	7146	End	26145
GI	6175155	Score	144
Exons	7146..7365, 8334..8583, 16019..16113, 22719..22871, 26084..26145		
GI Descrip.	(AC010796) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	54884	Seq. ID	OJ000322_14.0424.C8
Gene No.	115118	Strand	+
Start	4024	End	26145
Name	OJ000322_14.0424.C8.o4.np	Method	AAT/NAP
Start	12309	End	16120
GI	6056395	Score	512
Exons	12309..12425, 13014..13526, 13941..14009, 14037..14399,		

14503..14589, 15884..16120
GI Descrip. (AC009324) Hypothetical protein [Arabidopsis thaliana]

Seq. No.	54884	Seq. ID	OJ000322_14.0424.C8
Gene No.	115118	Strand	+
Start	4024	End	26145
Name	OJ000322_14.0424.C8.o1.gp	Method	AAT/GAP
Start	12646	End	13233
GI	3061174	Score	856
Exons	12646..12804, 12930..13233		

Seq. No.	54884	Seq. ID	OJ000322_14.0424.C8
Gene No.	115119	Strand	-
Start	1553	End	5888
Name	OJ000322_14.0424.C8.o1.np	Method	AAT/NAP
Start	1553	End	5888
GI	4539658	Score	254
Exons	1553..1655, 4147..4325, 4367..4493, 5820..5888		
GI Descrip.	(AF061282) serine carboxypeptidase-like protein [Sorghum bicolor]		

Seq. No.	54884	Seq. ID	OJ000322_14.0424.C8
Gene No.	115119	Strand	-
Start	1553	End	5888
Name	OJ000322_14.0424.C8.o2.gs	Method	GENSCAN
Start	3556	End	4279
GI	none	Score	.74
Exons	3556..3750, 4277..4279		

Seq. No.	54884	Seq. ID	OJ000322_14.0424.C8
Gene No.	115120	Strand	-
Start	17178	End	19712
Name	OJ000322_14.0424.C8.o2.gp	Method	AAT/GAP
Start	17164	End	19297
GI	none	Score	928
Exons	17164..17530, 19173..19297		

Seq. No.	54884	Seq. ID	OJ000322_14.0424.C8
Gene No.	115120	Strand	-
Start	17178	End	19712
Name	OJ000322_14.0424.C8.o4.gs	Method	GENSCAN
Start	17178	End	19712
GI	none	Score	.62
Exons	17178..17196, 17508..17530, 18510..18610, 19285..19365, 19550..19712		

Seq. No.	54884	Seq. ID	OJ000322_14.0424.C8
Gene No.	115121	Strand	-
Start	19807	End	19991
Name	OJ000322_14.0424.C8.o3.gp	Method	AAT/GAP
Start	19807	End	19991
GI	uC-osflcyp014e04b1	Score	320
Exons	19807..19991		
GI Descrip.	'4521193/dbj|AB013450.1|AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene'		

Seq. No.	54884	Seq. ID	OJ000322_14.0424.C8

Gene No.	115122	Strand	-
Start	20464	End	24538
Name	OJ000322_14.0424.C8.o2.tm	Method	TBLASTX:Maize
Start	3834	End	4591
GI	none	Score	96
Exons	3834..3959, 3834..3962, 3838..3975, 3955..3978, 3988..4092, 4001..4105, 4348..4473, 4348..4476, 4352..4489, 4461..4577, 4462..4590, 4469..4591, 4469..4591		

Seq. No.	54884	Seq. ID	OJ000322_14.0424.C8
Gene No.	115122	Strand	-
Start	20464	End	24538
Name	OJ000322_14.0424.C8.o5.gs	Method	GENSCAN
Start	20464	End	24010
GI	none	Score	.59
Exons	20464..20868, 22593..22782, 23184..23258, 23384..23620, 23915..24010		

Seq. No.	54884	Seq. ID	OJ000322_14.0424.C8
Gene No.	115122	Strand	-
Start	20464	End	24538
Name	OJ000322_14.0424.C8.o5.np	Method	AAT/NAP
Start	23370	End	24511
GI	5295966	Score	381
Exons	23370..23458, 23787..23993, 24038..24511		
GI Descrip.	(AB026295) Similar to Glycine max gmsti mRNA.(X79770) [Oryza sativa]		

Seq. No.	54884	Seq. ID	OJ000322_14.0424.C8
Gene No.	115122	Strand	-
Start	20464	End	24538
Name	OJ000322_14.0424.C8.o1.tm	Method	TBLASTX:Maize
Start	23800	End	24538
GI	none	Score	66
Exons	23800..23904, 23801..23911, 24046..24390, 24050..24403, 24426..24509, 24434..24538		

Seq. No.	54884	Seq. ID	OJ000322_14.0424.C8
Gene No.	115122	Strand	-
Start	20464	End	24538
Name	OJ000322_14.0424.C8.o1.tc	Method	TBLASTX:Cress
Start	24034	End	24514
GI	none	Score	67
Exons	24034..24153, 24211..24435, 24449..24514		

Seq. No.	54884	Seq. ID	OJ000322_14.0424.C8
Gene No.	115122	Strand	-
Start	20464	End	24538
Name	OJ000322_14.0424.C8.o1.ts	Method	TBLASTX:Soybean
Start	24037	End	24514
GI	none	Score	63
Exons	24037..24174, 24211..24435, 24449..24514		

Seq. No.	54884	Seq. ID	OJ000322_14.0424.C8
Gene No.	115122	Strand	-
Start	20464	End	24538
Name	OJ000322_14.0424.C8.o1.tw	Method	TBLASTX:Wheat

Start	24037	End	24435
GI	none	Score	37
Exons	24037..24186, 24050..24181, 24211..24435, 24212..24433		

Seq. No.	54885	Seq. ID	OJ000322_14.0424.C11
Gene No.	115123	Strand	-
Start	1	End	1395
Name	OJ000322_14.0424.C11.o1.np	Method	AAT/NAP
Start	1	End	1395
GI	7228457	Score	137
Exons	1..457, 1371..1395		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	54885	Seq. ID	OJ000322_14.0424.C11
Gene No.	115123	Strand	-
Start	1	End	1395
Name	OJ000322_14.0424.C11.o1.gs	Method	GENSCAN
Start	56	End	1326
GI	none	Score	.49
Exons	56..190, 1099..1208, 1242..1326		

Seq. No.	54886	Seq. ID	OJ000322_14.0424.C12
Gene No.	115124	Strand	+
Start	1	End	1930
Name	OJ000322_14.0424.C12.o1.gs	Method	GENSCAN
Start	1	End	1930
GI	none	Score	.56
Exons	1..32, 1091..1160, 1883..1930		

Seq. No.	54886	Seq. ID	OJ000322_14.0424.C12
Gene No.	115125	Strand	+
Start	1985	End	3534
Name	OJ000322_14.0424.C12.o1.np	Method	AAT/NAP
Start	1985	End	3534
GI	4680492	Score	489
Exons	1985..2607, 3437..3534		
GI Descrip.	(AF119222) putative reverse transcriptase [Oryza sativa]		

Seq. No.	54886	Seq. ID	OJ000322_14.0424.C12
Gene No.	115126	Strand	+
Start	6822	End	11047
Name	OJ000322_14.0424.C12.o3.gs	Method	GENSCAN
Start	6822	End	11008
GI	none	Score	.56
Exons	6822..6907, 7867..8023, 8468..8849, 8946..9112, 9231..9518, 9560..11008		

Seq. No.	54886	Seq. ID	OJ000322_14.0424.C12
Gene No.	115126	Strand	+
Start	6822	End	11047
Name	OJ000322_14.0424.C12.o2.np	Method	AAT/NAP
Start	7991	End	11047
GI	1091678	Score	458
Exons	7991..8049, 9469..10716, 10778..10826, 10856..11047		
GI Descrip.	activator-like transposable element [Pennisetum glaucum]		

Seq. No.	54886	Seq. ID	OJ000322_14.0424.C12
Gene No.	115127	Strand	-
Start	3315	End	6022
Name	OJ000322_14.0424.C12.o2.gs	Method	GENSCAN
Start	3315	End	6022
GI	none	Score	.4
Exons	3315..3325, 4192..4276, 4731..4840, 5473..5780, 5868..6022		

Seq. No.	54886	Seq. ID	OJ000322_14.0424.C12
Gene No.	115128	Strand	
Start	7733	End	8092
Name	OJ000322_14.0424.C12.o3.tm	Method	TBLASTX:Maize
Start	7733	End	8092
GI	none	Score	137
Exons	7733..7894, 7735..7893, 7895..8092		

Seq. No.	54886	Seq. ID	OJ000322_14.0424.C12
Gene No.	115129	Strand	
Start	9734	End	10123
Name	OJ000322_14.0424.C12.o1.tm	Method	TBLASTX:Maize
Start	9734	End	10123
GI	none	Score	399
Exons	9734..10123, 9736..9810, 9863..10114		

Seq. No.	54886	Seq. ID	OJ000322_14.0424.C12
Gene No.	115130	Strand	
Start	10157	End	10441
Name	OJ000322_14.0424.C12.o2.tm	Method	TBLASTX:Maize
Start	10157	End	10441
GI	none	Score	211
Exons	10157..10441		

Seq. No.	54886	Seq. ID	OJ000322_14.0424.C12
Gene No.	115130	Strand	
Start	10157	End	10441
Name	OJ000322_14.0424.C12.o1.tw	Method	TBLASTX:Wheat
Start	10169	End	10426
GI	none	Score	200
Exons	10169..10426, 10169..10387		

Seq. No.	54887	Seq. ID	OJ000322_14.0424.C13
Gene No.	115131	Strand	+
Start	4103	End	4528
Name	OJ000322_14.0424.C13.o2.gs	Method	GENSCAN
Start	4103	End	4528
GI	none	Score	.93
Exons	4103..4528		

Seq. No.	54887	Seq. ID	OJ000322_14.0424.C13
Gene No.	115132	Strand	-
Start	1	End	3111
Name	OJ000322_14.0424.C13.o1.np	Method	AAT/NAP
Start	1	End	2141
GI	5295966	Score	175
Exons	1..55, 1844..2141		
GI Descrip.	(AB026295) Similar to Glycine max gmsti mRNA.(X79770) [Oryza		

sativa]

Seq. No.	54887	Seq. ID	OJ000322_14.0424.C13
Gene No.	115132	Strand	-
Start	1	End	3111
Name	OJ000322_14.0424.C13.o1.gs	Method	GENSCAN
Start	249	End	3111
GI	none	Score	53
Exons	249..637, 1575..2133, 2353..2586, 2728..2917, 3059..3111		

Seq. No.	54887	Seq. ID	OJ000322_14.0424.C13
Gene No.	115132	Strand	-
Start	1	End	3111
Name	OJ000322_14.0424.C13.o2.np	Method	AAT/NAP
Start	405	End	2147
GI	5295966	Score	171
Exons	405..486, 1853..2147		
GI Descrip.	(AB026295) Similar to Glycine max gmsti mRNA.(X79770) [Oryza sativa]		

Seq. No.	54887	Seq. ID	OJ000322_14.0424.C13
Gene No.	115132	Strand	-
Start	1	End	3111
Name	OJ000322_14.0424.C13.o1.gp	Method	AAT/GAP
Start	1283	End	1544
GI	3107036	Score	471
Exons	1283..1544		

Seq. No.	54887	Seq. ID	OJ000322_14.0424.C13
Gene No.	115132	Strand	-
Start	1	End	3111
Name	OJ000322_14.0424.C13.o2.gp	Method	AAT/GAP
Start	1825	End	2489
GI	LIB3433-058-P1-K1-D2	Score	848
Exons	1825..2133, 2353..2489		
GI Descrip.	'5295966/dbj|BAA81867.1| 2.0e-21 (AB026295) Similar to Glycine max gmsti mRNA.(X79770) [Oryza sativa]'		

Seq. No.	54887	Seq. ID	OJ000322_14.0424.C13
Gene No.	115133	Strand	-
Start	5736	End	5986
Name	OJ000322_14.0424.C13.o1.tm	Method	TBLASTX:Maize
Start	695	End	2160
GI	none	Score	62
Exons	695..817, 735..818, 1744..1797, 1852..2010, 1853..2011, 2017..2160		

Seq. No.	54887	Seq. ID	OJ000322_14.0424.C13
Gene No.	115133	Strand	-
Start	5736	End	5986
Name	OJ000322_14.0424.C13.o3.gp	Method	AAT/GAP
Start	5736	End	5986
GI	none	Score	456
Exons	5736..5986		

Seq. No.	54888	Seq. ID	OJ000322_14.0424.C14
Gene No.	115134	Strand	-

Start	1	End	530
Name	OJ000322_14.0424.C14.o1.gp	Method	AAT/GAP
Start	1	End	154
GI	none	Score	308
Exons	1..154		

Seq. No.	54888	Seq. ID	OJ000322_14.0424.C14
Gene No.	115134	Strand	-
Start	1	End	530
Name	OJ000322_14.0424.C14.o1.np	Method	AAT/NAP
Start	1	End	511
GI	5295966	Score	170
Exons	1..511		
GI Descrip.	(AB026295) Similar to Glycine max gmsti mRNA.(X79770) [Oryza sativa]		

Seq. No.	54888	Seq. ID	OJ000322_14.0424.C14
Gene No.	115134	Strand	-
Start	1	End	530
Name	OJ000322_14.0424.C14.o1.tm	Method	TBLASTX:Maize
Start	186	End	530
GI	none	Score	61
Exons	186..356, 187..330, 414..530		

Seq. No.	54889	Seq. ID	OJ000322_14.0424.C17
Gene No.	115135	Strand	+
Start	223	End	2738
Name	OJ000322_14.0424.C17.o1.gs	Method	GENSCAN
Start	223	End	2738
GI	none	Score	.86
Exons	223..502, 612..1066, 1221..2202, 2355..2738		

Seq. No.	54889	Seq. ID	OJ000322_14.0424.C17
Gene No.	115135	Strand	+
Start	223	End	2738
Name	OJ000322_14.0424.C17.o1.np	Method	AAT/NAP
Start	300	End	1568
GI	7489397	Score	455
Exons	300..1142, 1180..1387, 1418..1568		
GI Descrip.	NBS-LRR type resistance protein - barley (fragment) gi|2792210|gb|AAB96980.1| (AF032683) NBS-LRR type resistance protein [Hordeum vulgare]		

Seq. No.	54889	Seq. ID	OJ000322_14.0424.C17
Gene No.	115135	Strand	+
Start	223	End	2738
Name	OJ000322_14.0424.C17.o1.ts	Method	TBLASTX:Soybean
Start	1182	End	2150
GI	none	Score	180
Exons	1182..1388, 1416..1625, 2046..2150		

Seq. No.	54890	Seq. ID	OJ000322_14.0424.C18
Gene No.	115136	Strand	-
Start	1293	End	1582
Name	OJ000322_14.0424.C18.o1.np	Method	AAT/NAP
Start	1293	End	1582
GI	6056396	Score	100

Exons	1293..1582		
GI Descrip.	(AC009324) Similar to initiation factor 2 subunit [Arabidopsis thaliana] gi|6056397|gb|AAF02861.1|AC009324_10 (AC009324) Similar to initiation factor 2 subunit [Arabidopsis thaliana]		
Seq. No.	54891	Seq. ID	OJ000322_14.0424.C19
Gene No.	115137	Strand	+
Start	88	End	1332
Name	OJ000322_14.0424.C19.o1.gs	Method	GENSCAN
Start	88	End	1332
GI	none	Score	.86
Exons	88..1332		
Seq. No.	54892	Seq. ID	OJ000322_14.0424.C20
Gene No.	115138	Strand	+
Start	1	End	483
Name	OJ000322_14.0424.C20.o1.np	Method	AAT/NAP
Start	1	End	474
GI	4680339	Score	233
Exons	1..474		
GI Descrip.	(AF128457) hypothetical protein [Oryza sativa subsp. indica]		
Seq. No.	54892	Seq. ID	OJ000322_14.0424.C20
Gene No.	115138	Strand	+
Start	1	End	483
Name	OJ000322_14.0424.C20.o1.gs	Method	GENSCAN
Start	64	End	483
GI	none	Score	.61
Exons	64..483		
Seq. No.	54892	Seq. ID	OJ000322_14.0424.C20
Gene No.	115139	Strand	-
Start	1	End	460
Name	OJ000322_14.0424.C20.o1.gp	Method	AAT/GAP
Start	1	End	460
GI	71605_1.R1084	Score	902
Exons	1..460		
GI Descrip.	'4680339/gb|AAD27630.1|AF128457_4 6.0e-16 (AF128457) hypothetical protein [Oryza sativa subsp. indica]'		
Seq. No.	54892	Seq. ID	OJ000322_14.0424.C20
Gene No.	115140	Strand	-
Start	1651	End	2306
Name	OJ000322_14.0424.C20.o2.gs	Method	GENSCAN
Start	1651	End	2306
GI	none	Score	.82
Exons	1651..1821, 2169..2306		
Seq. No.	54893	Seq. ID	OJ000322_14.0424.C21
Gene No.	115141	Strand	-
Start	92	End	1626
Name	OJ000322_14.0424.C21.o1.gs	Method	GENSCAN
Start	92	End	1626
GI	none	Score	.96
Exons	92..264, 1543..1626		
Seq. No.	54894	Seq. ID	OJ000322_14.0424.C27

Gene No.	115142	Strand	-
Start	1	End	704
Name	OJ000322_14.0424.C27.o1.np	Method	AAT/NAP
Start	1	End	704
GI	6665714	Score	70
Exons	1..266, 677..704		
GI Descrip.	(AF211191) polypyrimidine tract binding protein [Drosophila melanogaster]		

Seq. No.	54895	Seq. ID	OJ000322_10.0424.C1
Gene No.	115143	Strand	+
Start	479	End	2139
Name	OJ000322_10.0424.C1.o1.gs	Method	GENSCAN
Start	479	End	2139
GI	none	Score	.81
Exons	479..697, 1305..1412, 1417..1481, 1490..1640, 1759..2139		

Seq. No.	54895	Seq. ID	OJ000322_10.0424.C1
Gene No.	115144	Strand	+
Start	11037	End	12020
Name	OJ000322_10.0424.C1.o3.gs	Method	GENSCAN
Start	11037	End	12020
GI	none	Score	.88
Exons	11037..11270, 11895..12020		

Seq. No.	54895	Seq. ID	OJ000322_10.0424.C1
Gene No.	115144	Strand	+
Start	11037	End	12020
Name	OJ000322_10.0424.C1.o3.np	Method	AAT/NAP
Start	11037	End	11777
GI	7248393	Score	451
Exons	11037..11355, 11428..11777		
GI Descrip.	(AP001389) hypothetical protein [Oryza sativa]		

Seq. No.	54895	Seq. ID	OJ000322_10.0424.C1
Gene No.	115145	Strand	-
Start	2233	End	9999
Name	OJ000322_10.0424.C1.o1.tw	Method	TBLASTX:Wheat
Start	364	End	702
GI	none	Score	122
Exons	364..546, 571..702, 576..701		

Seq. No.	54895	Seq. ID	OJ000322_10.0424.C1
Gene No.	115145	Strand	-
Start	2233	End	9999
Name	OJ000322_10.0424.C1.o1.tm	Method	TBLASTX:Maize
Start	400	End	666
GI	none	Score	150
Exons	400..582, 583..666		

Seq. No.	54895	Seq. ID	OJ000322_10.0424.C1
Gene No.	115145	Strand	-
Start	2233	End	9999
Name	OJ000322_10.0424.C1.o2.gs	Method	GENSCAN
Start	2233	End	9999
GI	none	Score	.47
Exons	2233..2466, 2509..2908, 3061..3119, 4524..4648, 4815..4877,		

5349..5450, 5761..5835, 5862..5986, 6229..6579, 6864..7138,
9434..9471, 9592..9719, 9917..9999

Seq. No.	54895	Seq. ID	OJ000322_10.0424.C1
Gene No.	115145	Strand	-
Start	2233	End	9999
Name	OJ000322_10.0424.C1.o2.np	Method	AAT/NAP
Start	2236	End	6400
GI	6721561	Score	948
Exons	2236..2997, 3057..3119, 3190..3258, 6208..6400		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	54896	Seq. ID	OJ000322_10.0424.C2
Gene No.	115146	Strand	+
Start	402	End	8530
Name	OJ000322_10.0424.C2.o1.gs	Method	GENSCAN
Start	402	End	4098
GI	none	Score	.44
Exons	402..980, 1318..1937, 2326..2902, 3652..4098		

Seq. No.	54896	Seq. ID	OJ000322_10.0424.C2
Gene No.	115146	Strand	+
Start	402	End	8530
Name	OJ000322_10.0424.C2.o1.np	Method	AAT/NAP
Start	1411	End	8530
GI	7248394	Score	1737
Exons	1411..2333, 2601..2913, 6057..6804, 8511..8530		
GI Descrip.	(AP001389) ESTs C97394(C60113),AU075824(R0165),D38985(R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15O11 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)		

Seq. No.	54896	Seq. ID	OJ000322_10.0424.C2
Gene No.	115146	Strand	+
Start	402	End	8530
Name	OJ000322_10.0424.C2.o6.ts	Method	TBLASTX:Soybean
Start	1555	End	1893
GI	none	Score	191
Exons	1555..1893		

Seq. No.	54896	Seq. ID	OJ000322_10.0424.C2
Gene No.	115146	Strand	+
Start	402	End	8530
Name	OJ000322_10.0424.C2.o4.ts	Method	TBLASTX:Soybean
Start	2303	End	2668
GI	none	Score	128
Exons	2303..2527, 2534..2668		

Seq. No.	54896	Seq. ID	OJ000322_10.0424.C2
Gene No.	115146	Strand	+
Start	402	End	8530
Name	OJ000322_10.0424.C2.o1.tw	Method	TBLASTX:Wheat

Start	2465	End	2866
GI	none	Score	80
Exons	2465..2512, 2470..2520, 2516..2806, 2524..2802, 2804..2866		

Seq. No.	54896	Seq. ID	OJ000322_10.0424.C2
Gene No.	115146	Strand	+
Start	402	End	8530
Name	OJ000322_10.0424.C2.o1.tm	Method	TBLASTX:Maize
Start	2522	End	2784
GI	none	Score	333
Exons	2522..2782, 2524..2784, 2524..2784		

Seq. No.	54896	Seq. ID	OJ000322_10.0424.C2
Gene No.	115146	Strand	+
Start	402	End	8530
Name	OJ000322_10.0424.C2.o2.tm	Method	TBLASTX:Maize
Start	2804	End	6339
GI	none	Score	124
Exons	2804..2914, 6054..6338, 6055..6339		

Seq. No.	54896	Seq. ID	OJ000322_10.0424.C2
Gene No.	115146	Strand	+
Start	402	End	8530
Name	OJ000322_10.0424.C2.o1.gp	Method	AAT/GAP
Start	4971	End	5350
GI	uC-osflcyp033a04b1	Score	635
Exons	4971..5350		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	54896	Seq. ID	OJ000322_10.0424.C2
Gene No.	115146	Strand	+
Start	402	End	8530
Name	OJ000322_10.0424.C2.o2.ts	Method	TBLASTX:Soybean
Start	6061	End	6495
GI	none	Score	189
Exons	6061..6303, 6063..6311, 6307..6495, 6351..6482		

Seq. No.	54896	Seq. ID	OJ000322_10.0424.C2
Gene No.	115146	Strand	+
Start	402	End	8530
Name	OJ000322_10.0424.C2.o2.np	Method	AAT/NAP
Start	6073	End	8472
GI	4680180	Score	902
Exons	6073..8472		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	54896	Seq. ID	OJ000322_10.0424.C2
Gene No.	115146	Strand	+
Start	402	End	8530
Name	OJ000322_10.0424.C2.o5.tw	Method	TBLASTX:Wheat
Start	6073	End	6408
GI	none	Score	174
Exons	6073..6345, 6084..6341, 6307..6408, 6330..6404		

Seq. No.	54896	Seq. ID	OJ000322_10.0424.C2
Gene No.	115146	Strand	+

Start	402	End	8530
Name	OJ000322_10.0424.C2.o2.gs	Method	GENSCAN
Start	6079	End	8460
GI	none	Score	57
Exons	6079..6278, 6891..7358, 7603..7835, 7901..8460		

Seq. No.	54896	Seq. ID	OJ000322_10.0424.C2
Gene No.	115146	Strand	+
Start	402	End	8530
Name	OJ000322_10.0424.C2.o1.ts	Method	TBLASTX:Soybean
Start	6646	End	7058
GI	none	Score	137
Exons	6646..6783, 6648..6779, 6795..6887, 6804..7058, 6805..7056		

Seq. No.	54896	Seq. ID	OJ000322_10.0424.C2
Gene No.	115146	Strand	+
Start	402	End	8530
Name	OJ000322_10.0424.C2.o3.tw	Method	TBLASTX:Wheat
Start	6691	End	7089
GI	none	Score	73
Exons	6691..6780, 6820..7089		

Seq. No.	54896	Seq. ID	OJ000322_10.0424.C2
Gene No.	115146	Strand	+
Start	402	End	8530
Name	OJ000322_10.0424.C2.o3.np	Method	AAT/NAP
Start	6886	End	8524
GI	629693	Score	505
Exons	6886..6990, 7466..8524		
GI Descrip.	probable integrase - common tobacco (fragment) gi|530742|emb|CAA56791| (X80830) integrase [Nicotiana tabacum]		

Seq. No.	54896	Seq. ID	OJ000322_10.0424.C2
Gene No.	115146	Strand	+
Start	402	End	8530
Name	OJ000322_10.0424.C2.o4.tw	Method	TBLASTX:Wheat
Start	7472	End	7840
GI	none	Score	118
Exons	7472..7636, 7673..7765, 7778..7840		

Seq. No.	54896	Seq. ID	OJ000322_10.0424.C2
Gene No.	115146	Strand	+
Start	402	End	8530
Name	OJ000322_10.0424.C2.o5.ts	Method	TBLASTX:Soybean
Start	7529	End	7804
GI	none	Score	192
Exons	7529..7804, 7597..7713		

Seq. No.	54896	Seq. ID	OJ000322_10.0424.C2
Gene No.	115146	Strand	+
Start	402	End	8530
Name	OJ000322_10.0424.C2.o2.tw	Method	TBLASTX:Wheat
Start	8050	End	8451
GI	none	Score	224
Exons	8050..8451, 8058..8423		

Seq. No.	54896	Seq. ID	OJ000322_10.0424.C2

Gene No.	115146	Strand	+
Start	402	End	8530
Name	OJ000322_10.0424.C2.o3.ts	Method	TBLASTX:Soybean
Start	8233	End	8472
GI	none	Score	227
Exons	8233..8472, 8253..8405		

Seq. No.	54897	Seq. ID	OJ000322_10.0424.C3
Gene No.	115147	Strand	+
Start	9246	End	11451
Name	OJ000322_10.0424.C3.o3.gs	Method	GENSCAN
Start	9246	End	11451
GI	none	Score	.41
Exons	9246..9775, 9953..10035, 10083..10208, 11387..11451		

Seq. No.	54897	Seq. ID	OJ000322_10.0424.C3
Gene No.	115147	Strand	+
Start	9246	End	11451
Name	OJ000322_10.0424.C3.o1.np	Method	AAT/NAP
Start	9372	End	10049
GI	7248393	Score	590
Exons	9372..10049		
GI Descrip.	(AP001389) hypothetical protein [Oryza sativa]		

Seq. No.	54897	Seq. ID	OJ000322_10.0424.C3
Gene No.	115148	Strand	-
Start	295	End	3379
Name	OJ000322_10.0424.C3.o1.gs	Method	GENSCAN
Start	295	End	3379
GI	none	Score	.6
Exons	295..588, 652..858, 1120..1185, 1332..1673, 1751..1883, 2157..2415, 2467..2987, 2989..3224, 3323..3379		

Seq. No.	54897	Seq. ID	OJ000322_10.0424.C3
Gene No.	115149	Strand	-
Start	12271	End	19071
Name	OJ000322_10.0424.C3.o4.gs	Method	GENSCAN
Start	12271	End	18598
GI	none	Score	.73
Exons	12271..12274, 12372..12481, 12578..12733, 13693..15397, 15531..15814, 15854..16626, 16854..17127, 17143..17481, 18384..18510, 18538..18598		

Seq. No.	54897	Seq. ID	OJ000322_10.0424.C3
Gene No.	115149	Strand	-
Start	12271	End	19071
Name	OJ000322_10.0424.C3.o4.np	Method	AAT/NAP
Start	12712	End	18732
GI	7106512	Score	108
Exons	12712..12775, 18467..18598, 18672..18732		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	54897	Seq. ID	OJ000322_10.0424.C3
Gene No.	115149	Strand	-
Start	12271	End	19071
Name	OJ000322_10.0424.C3.o2.np	Method	AAT/NAP

Start	13558	End	19071
GI	4680179	Score	4639
Exons	13558..16935, 16969..17493, 19046..19071		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	54897	Seq. ID	OJ000322_10.0424.C3
Gene No.	115149	Strand	-
Start	12271	End	19071
Name	OJ000322_10.0424.C3.o6.tw	Method	TBLASTX:Wheat
Start	13603	End	13936
GI	none	Score	112
Exons	13603..13935, 13667..13936		

Seq. No.	54897	Seq. ID	OJ000322_10.0424.C3
Gene No.	115149	Strand	-
Start	12271	End	19071
Name	OJ000322_10.0424.C3.o1.tm	Method	TBLASTX:Maize
Start	13783	End	14382
GI	none	Score	224
Exons	13783..14223, 13799..14221, 14221..14382, 14227..14376		

Seq. No.	54897	Seq. ID	OJ000322_10.0424.C3
Gene No.	115149	Strand	-
Start	12271	End	19071
Name	OJ000322_10.0424.C3.o1.tw	Method	TBLASTX:Wheat
Start	13936	End	14562
GI	none	Score	254
Exons	13936..14562, 13937..14506		

Seq. No.	54897	Seq. ID	OJ000322_10.0424.C3
Gene No.	115149	Strand	-
Start	12271	End	19071
Name	OJ000322_10.0424.C3.o4.tm	Method	TBLASTX:Maize
Start	14431	End	14723
GI	none	Score	218
Exons	14431..14721, 14435..14722, 14535..14723		

Seq. No.	54897	Seq. ID	OJ000322_10.0424.C3
Gene No.	115149	Strand	-
Start	12271	End	19071
Name	OJ000322_10.0424.C3.o2.ts	Method	TBLASTX:Soybean
Start	14521	End	14781
GI	none	Score	155
Exons	14521..14781, 14522..14776		

Seq. No.	54897	Seq. ID	OJ000322_10.0424.C3
Gene No.	115149	Strand	-
Start	12271	End	19071
Name	OJ000322_10.0424.C3.o2.tw	Method	TBLASTX:Wheat
Start	14569	End	15133
GI	none	Score	347
Exons	14569..15132, 14570..15133		

Seq. No.	54897	Seq. ID	OJ000322_10.0424.C3
Gene No.	115149	Strand	-
Start	12271	End	19071
Name	OJ000322_10.0424.C3.o2.tm	Method	TBLASTX:Maize

Start	15072	End	15491
GI	none	Score	90
Exons	15072..15149, 15124..15360, 15136..15360, 15236..15361, 15359..15490, 15360..15491, 15362..15490		

Seq. No.	54897	Seq. ID	OJ000322_10.0424.C3
Gene No.	115149	Strand	-
Start	12271	End	19071
Name	OJ000322_10.0424.C3.o3.tw	Method	TBLASTX:Wheat
Start	15136	End	15562
GI	none	Score	161
Exons	15136..15360, 15139..15360, 15179..15361, 15359..15499, 15360..15533, 15360..15512, 15362..15562		

Seq. No.	54897	Seq. ID	OJ000322_10.0424.C3
Gene No.	115149	Strand	-
Start	12271	End	19071
Name	OJ000322_10.0424.C3.o1.gp	Method	AAT/GAP
Start	15164	End	15789
GI	3548944	Score	1028
Exons	15164..15789		
GI Descrip.	4512237/dbj|BAA75235.1| 2.0e-89 (AB014746) polyprotein [Hordeum vulgare]		

Seq. No.	54897	Seq. ID	OJ000322_10.0424.C3
Gene No.	115149	Strand	-
Start	12271	End	19071
Name	OJ000322_10.0424.C3.o3.tm	Method	TBLASTX:Maize
Start	15527	End	16027
GI	none	Score	70
Exons	15527..15817, 15536..15679, 15848..16027		

Seq. No.	54897	Seq. ID	OJ000322_10.0424.C3
Gene No.	115149	Strand	-
Start	12271	End	19071
Name	OJ000322_10.0424.C3.o5.tw	Method	TBLASTX:Wheat
Start	15563	End	15865
GI	none	Score	237
Exons	15563..15865, 15579..15845, 15805..15864		

Seq. No.	54897	Seq. ID	OJ000322_10.0424.C3
Gene No.	115149	Strand	-
Start	12271	End	19071
Name	OJ000322_10.0424.C3.o1.ts	Method	TBLASTX:Soybean
Start	15568	End	15973
GI	none	Score	102
Exons	15568..15834, 15578..15937, 15579..15854, 15912..15935, 15914..15973, 15941..15973		

Seq. No.	54897	Seq. ID	OJ000322_10.0424.C3
Gene No.	115149	Strand	-
Start	12271	End	19071
Name	OJ000322_10.0424.C3.o4.tw	Method	TBLASTX:Wheat
Start	15914	End	16397
GI	none	Score	208
Exons	15914..16291, 15917..16264, 15957..16397, 16346..16396		

Seq. No.	54897	Seq. ID	OJ000322_10.0424.C3
Gene No.	115149	Strand	-
Start	12271	End	19071
Name	OJ000322_10.0424.C3.o5.tm	Method	TBLASTX:Maize
Start	16095	End	16385
GI	none	Score	214
Exons	16095..16385, 16097..16384		

Seq. No.	54897	Seq. ID	OJ000322_10.0424.C3
Gene No.	115149	Strand	-
Start	12271	End	19071
Name	OJ000322_10.0424.C3.o8.tw	Method	TBLASTX:Wheat
Start	16487	End	16906
GI	none	Score	65
Exons	16487..16597, 16559..16651, 16570..16665, 16697..16750, 16709..16906, 16735..16905		

Seq. No.	54897	Seq. ID	OJ000322_10.0424.C3
Gene No.	115149	Strand	-
Start	12271	End	19071
Name	OJ000322_10.0424.C3.o7.tw	Method	TBLASTX:Wheat
Start	17218	End	17472
GI	none	Score	192
Exons	17218..17472		

Seq. No.	54897	Seq. ID	OJ000322_10.0424.C3
Gene No.	115149	Strand	-
Start	12271	End	19071
Name	OJ000322_10.0424.C3.o2.gp	Method	AAT/GAP
Start	18629	End	18876
GI	3761181	Score	438
Exons	18629..18876		
GI Descrip.	4521193/dbj|AB013450.1|AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene		

Seq. No.	54898	Seq. ID	OJ000302_13.0424.C1
Gene No.	115150	Strand	+
Start	245	End	332
Name	OJ000302_13.0424.C1.o1.gs	Method	GENSCAN
Start	245	End	332
GI	none	Score	.8
Exons	245..332		

Seq. No.	54899	Seq. ID	OJ000302_13.0424.C2
Gene No.	115151	Strand	-
Start	403	End	951
Name	OJ000302_13.0424.C2.o1.gs	Method	GENSCAN
Start	403	End	951
GI	none	Score	.84
Exons	403..458, 710..951		

Seq. No.	54900	Seq. ID	OJ000302_13.0424.C3
Gene No.	115152	Strand	+
Start	1	End	2815
Name	OJ000302_13.0424.C3.o1.np	Method	AAT/NAP
Start	1	End	2812
GI	5103812	Score	680

Exons	1..29, 85..174, 265..333, 1102..1242, 1520..1568, 2021..2124, 2240..2506, 2594..2812		
GI Descrip.	(AC007591) Similar to gb|AJ005073 Alix (ALG-2-interacting protein X) from Mus musculus. ESTs gb|R90133, gb|Z17944 and gb|AA605465 come from this gene. [Arabidopsis thaliana]		
Seq. No.	54900	Seq. ID	OJ000302_13.0424.C3
Gene No.	115152	Strand	+
Start	1	End	2815
Name	OJ000302_13.0424.C3.o1.gs	Method	GENSCAN
Start	85	End	2815
GI	none	Score	.89
Exons	85..174, 265..333, 1102..1242, 1520..1568, 2021..2124, 2240..2815		
Seq. No.	54900	Seq. ID	OJ000302_13.0424.C3
Gene No.	115152	Strand	+
Start	1	End	2815
Name	OJ000302_13.0424.C3.o1.gp	Method	AAT/GAP
Start	110	End	2358
GI	LIB3434-015-P1-K1-A2	Score	905
Exons	110..174, 265..333, 1102..1242, 1520..1568, 2021..2124, 2240..2358		
GI Descrip.	'5103812/gb|AAD39642.1|AC007591_7 9.0e-62 (AC007591) Similar to gb_AJ005073 Alix (ALG-2-interacting protein X) from Mus musculus. ESTs gb_R90133, gb_Z17944 and gb_AA605465 come from this gene. [Arabidopsis thaliana]'		
Seq. No.	54900	Seq. ID	OJ000302_13.0424.C3
Gene No.	115153	Strand	+
Start	4845	End	9530
Name	OJ000302_13.0424.C3.o2.gs	Method	GENSCAN
Start	4845	End	9530
GI	none	Score	.53
Exons	4845..7189, 8589..8660, 9216..9266, 9407..9530		
Seq. No.	54900	Seq. ID	OJ000302_13.0424.C3
Gene No.	115153	Strand	+
Start	4845	End	9530
Name	OJ000302_13.0424.C3.o2.np	Method	AAT/NAP
Start	5497	End	7195
GI	6630464	Score	898
Exons	5497..7195		
GI Descrip.	(AC007190) F23N19.4 [Arabidopsis thaliana]		
Seq. No.	54900	Seq. ID	OJ000302_13.0424.C3
Gene No.	115154	Strand	+
Start	10468	End	10665
Name	OJ000302_13.0424.C3.o3.gs	Method	GENSCAN
Start	10468	End	10665
GI	none	Score	.92
Exons	10468..10665		
Seq. No.	54900	Seq. ID	OJ000302_13.0424.C3
Gene No.	115155	Strand	+
Start	14416	End	14730
Name	OJ000302_13.0424.C3.o4.np	Method	AAT/NAP

Start	14416	End	14730
GI	7340909	Score	171
Exons	14416..14730		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	54900	Seq. ID	OJ000302_13.0424.C3
Gene No.	115156	Strand	-
Start	12815	End	14730
Name	OJ000302_13.0424.C3.o2.ts	Method	TBLASTX:Soybean
Start	84	End	338
GI	none	Score	122
Exons	84..173, 85..174, 264..338, 265..333		

Seq. No.	54900	Seq. ID	OJ000302_13.0424.C3
Gene No.	115156	Strand	-
Start	12815	End	14730
Name	OJ000302_13.0424.C3.o3.tm	Method	TBLASTX:Maize
Start	84	End	1257
GI	none	Score	134
Exons	84..173, 84..173, 85..174, 264..338, 265..333, 1099..1257, 1101..1214		

Seq. No.	54900	Seq. ID	OJ000302_13.0424.C3
Gene No.	115156	Strand	-
Start	12815	End	14730
Name	OJ000302_13.0424.C3.o3.ts	Method	TBLASTX:Soybean
Start	1099	End	2283
GI	none	Score	190
Exons	1099..1251, 1101..1214, 1508..1567, 2014..2124, 2025..2126, 2233..2283, 2234..2281		

Seq. No.	54900	Seq. ID	OJ000302_13.0424.C3
Gene No.	115156	Strand	-
Start	12815	End	14730
Name	OJ000302_13.0424.C3.o2.tm	Method	TBLASTX:Maize
Start	1522	End	2474
GI	none	Score	78
Exons	1522..1566, 1523..1567, 2014..2124, 2019..2126, 2022..2126, 2232..2357, 2234..2341, 2236..2355, 2236..2358, 2350..2427, 2354..2407, 2358..2426, 2447..2473, 2448..2474		

Seq. No.	54900	Seq. ID	OJ000302_13.0424.C3
Gene No.	115156	Strand	-
Start	12815	End	14730
Name	OJ000302_13.0424.C3.o1.ts	Method	TBLASTX:Soybean
Start	5106	End	7154
GI	none	Score	78
Exons	5106..5261, 5136..5411, 5292..5420, 5292..5411, 5429..5755, 5430..6098, 5430..5969, 5439..5783, 5519..5896, 5529..6398, 5562..5744, 5643..6503, 5736..6098, 5772..5945, 5853..6725, 5958..6734, 6051..6260, 6105..6275, 6159..7007, 6231..6602, 6264..7043, 6290..6469, 6297..6470, 6303..6938, 6338..6595, 6344..6619, 6344..6607, 6377..6502, 6402..6575, 6483..7091, 6587..6766, 6711..7154, 6813..7106, 6816..7079		

Seq. No.	54900	Seq. ID	OJ000302_13.0424.C3
Gene No.	115156	Strand	-

Start	12815	End	14730
Name	OJ000302_13.0424.C3.o1.tc	Method	TBLASTX:Cress
Start	5112	End	7046
GI	none	Score	85
Exons	5112..5291, 5112..5252, 5229..5393, 5304..5414, 5325..5411, 5430..5618, 5435..5617, 5436..5696, 5439..5786, 5475..5696, 5526..5897, 5586..5798, 5600..5755, 5708..5893, 5712..5894, 5727..5894, 5748..6098, 5753..5956, 5817..6023, 5844..6209, 5946..6335, 5985..6248, 6063..6419, 6156..6527, 6231..6458, 6261..6647, 6281..6607, 6342..6563, 6350..6559, 6356..6523, 6378..6734, 6383..6691, 6429..6668, 6483..6833, 6546..6743, 6563..6760, 6588..6935, 6615..6878, 6629..6880, 6711..7007, 6756..6971, 6816..7046		

Seq. No.	54900	Seq. ID	OJ000302_13.0424.C3
Gene No.	115156	Strand	-
Start	12815	End	14730
Name	OJ000302_13.0424.C3.o1.tm	Method	TBLASTX:Maize
Start	5112	End	7079
GI	none	Score	69
Exons	5112..5294, 5421..5546, 5429..5650, 5430..5651, 5457..5966, 5457..5651, 5568..6071, 5665..6078, 5666..6124, 5667..6176, 5667..6164, 5793..6275, 5883..6386, 5982..6491, 6108..6596, 6198..6659, 6296..6595, 6297..6785, 6326..6598, 6401..6607, 6402..6911, 6513..7031, 6549..6650, 6612..7079, 6803..6928		

Seq. No.	54900	Seq. ID	OJ000302_13.0424.C3
Gene No.	115156	Strand	-
Start	12815	End	14730
Name	OJ000302_13.0424.C3.o4.gs	Method	GENSCAN
Start	12815	End	14491
GI	none	Score	.8
Exons	12815..12875, 13583..13709, 14371..14491		

Seq. No.	54900	Seq. ID	OJ000302_13.0424.C3
Gene No.	115156	Strand	-
Start	12815	End	14730
Name	OJ000302_13.0424.C3.o3.np	Method	AAT/NAP
Start	13413	End	14730
GI	5922622	Score	154
Exons	13413..13451, 13565..13731, 13858..14144, 14571..14730		
GI Descrip.	(AP000492) EST D46034(S10428) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6016855|dbj|BAA85198.1| (AP000570) EST D46034(S10428) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	54901	Seq. ID	OJ000302_13.0424.C4
Gene No.	115157	Strand	+
Start	62	End	381
Name	OJ000302_13.0424.C4.o1.gs	Method	GENSCAN
Start	62	End	381
GI	none	Score	.84
Exons	62..125, 263..381		

Seq. No.	54901	Seq. ID	OJ000302_13.0424.C4
Gene No.	115158	Strand	+

Start	892	End	2277
Name	OJ000302_13.0424.C4.o2.gs	Method	GENSCAN
Start	892	End	2277
GI	none	Score	.85
Exons	892..2277		

Seq. No.	54901	Seq. ID	OJ000302_13.0424.C4
Gene No.	115159	Strand	-
Start	1	End	249
Name	OJ000302_13.0424.C4.o1.np	Method	AAT/NAP
Start	1	End	249
GI	7340909	Score	124
Exons	1..249		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	54901	Seq. ID	OJ000302_13.0424.C4
Gene No.	115160	Strand	
Start	1129	End	4475
Name	OJ000302_13.0424.C4.o1.tc	Method	TBLASTX:Cress
Start	1129	End	4299
GI	none	Score	79
Exons	1129..1314, 1135..1314, 1135..1275, 1252..1434, 1327..1434, 1459..1704, 1465..1803, 1465..1716, 1465..1638, 1486..1704, 1495..1731, 1549..1917, 1606..1827, 1620..1805, 1716..1976, 1747..1914, 1768..2118, 1768..1914, 1873..2232, 1963..2151, 2005..2268, 2025..2234, 2074..2442, 2085..2258, 2140..2451, 2278..2451, 2362..2454, 3964..4203, 3967..4230, 3970..4185, 3975..4151, 4002..4163, 4018..4296, 4081..4296, 4111..4299		

Seq. No.	54901	Seq. ID	OJ000302_13.0424.C4
Gene No.	115160	Strand	
Start	1129	End	4475
Name	OJ000302_13.0424.C4.o1.ts	Method	TBLASTX:Soybean
Start	1129	End	4463
GI	none	Score	74
Exons	1129..1284, 1324..1434, 1327..1443, 1465..2202, 1465..1893, 1473..1787, 1474..1803, 1474..1800, 1504..1665, 1539..1793, 1542..1802, 1549..2418, 1596..1706, 1663..2442, 1767..2090, 1792..1965, 1873..2508, 1911..2264, 2002..2175, 2067..2306, 2071..2442, 2179..2454, 2284..2472, 2323..2454, 2337..2483, 2358..2471, 2555..2605, 3957..4142, 3960..4256, 3961..4248, 3964..4098, 3964..4260, 3967..4260, 4017..4463, 4018..4299, 4120..4269		

Seq. No.	54901	Seq. ID	OJ000302_13.0424.C4
Gene No.	115160	Strand	
Start	1129	End	4475
Name	OJ000302_13.0424.C4.o1.tm	Method	TBLASTX:Maize
Start	1135	End	4475
GI	none	Score	70
Exons	1135..1317, 1465..1881, 1476..1940, 1477..1986, 1477..1671, 1500..1673, 1588..2097, 1639..1860, 1686..2195, 1687..2196, 1792..2301, 1903..2406, 2002..2454, 3961..4230, 3967..4446, 4048..4269, 4359..4475		

Seq. No.	54902	Seq. ID	OJ000302_13.0424.C5
Gene No.	115161	Strand	-

Start	854	End	5233
Name	OJ000302_13.0424.C5.o1.gp	Method	AAT/GAP
Start	808	End	2213
GI	none	Score	1466
Exons	808..1277, 1376..1468, 1552..1607, 2046..2213		

Seq. No.	54902	Seq. ID	OJ000302_13.0424.C5
Gene No.	115161	Strand	-
Start	854	End	5233
Name	OJ000302_13.0424.C5.o1.gs	Method	GENSCAN
Start	854	End	5233
GI	none	Score	.89
Exons	854..928, 971..1097, 1099..1277, 1376..1468, 1562..1639, 2046..2711, 2821..3066, 3159..3581, 3998..4634, 5148..5233		

Seq. No.	54902	Seq. ID	OJ000302_13.0424.C5
Gene No.	115161	Strand	-
Start	854	End	5233
Name	OJ000302_13.0424.C5.o1.tm	Method	TBLASTX:Maize
Start	1104	End	4522
GI	none	Score	170
Exons	1104..1280, 1114..1275, 1337..1435, 1374..1427, 1551..1610, 2044..2094, 2102..2188, 2103..2195, 2109..2189, 2110..2190, 2202..2285, 2214..2285, 2224..2298, 2262..2483, 2299..2550, 2301..2387, 2303..2536, 2357..2548, 2357..2548, 2357..2587, 2361..2468, 2361..2483, 2361..2483, 2362..2559, 2366..2551, 2366..2548, 2366..2419, 2368..2571, 2368..2556, 2381..2548, 2420..2551, 2427..2483, 2429..2542, 2431..2553, 2447..2485, 2574..2714, 2575..2715, 2576..2665, 2576..2635, 2634..2714, 2679..2741, 2783..3067, 2818..3075, 2819..3067, 2875..3000, 2919..3083, 3150..3353, 3156..3350, 3166..3354, 3354..3488, 3355..3411, 3362..3445, 3437..3583, 3447..3584, 3471..3584, 3553..3585, 3995..4150, 4052..4150, 4337..4501, 4379..4522		

Seq. No.	54902	Seq. ID	OJ000302_13.0424.C5
Gene No.	115161	Strand	-
Start	854	End	5233
Name	OJ000302_13.0424.C5.o1.np	Method	AAT/NAP
Start	2077	End	4621
GI	5080792	Score	518
Exons	2077..2233, 2640..2711, 2821..3076, 3159..3382, 3428..3581, 3998..4276, 4306..4621		
GI Descrip.	(AC007576) Unknown protein [Arabidopsis thaliana]		

Seq. No.	54902	Seq. ID	OJ000302_13.0424.C5
Gene No.	115161	Strand	-
Start	854	End	5233
Name	OJ000302_13.0424.C5.o1.ts	Method	TBLASTX:Soybean
Start	2818	End	4489
GI	none	Score	112
Exons	2818..2979, 2818..2994, 2822..2983, 2825..2980, 2863..2997, 2875..2973, 2992..3060, 3162..3356, 3216..3335, 3507..3590, 3986..4183, 3992..4183, 3998..4156, 4052..4165, 4052..4150, 4208..4255, 4316..4489, 4326..4466, 4337..4477, 4379..4477		

Seq. No.	54902	Seq. ID	OJ000302_13.0424.C5
Gene No.	115161	Strand	-

Start	854	End	5233
Name	OJ000302_13.0424.C5.o1.tc	Method	TBLASTX:Cress
Start	2875	End	4556
GI	none	Score	144
Exons	2875..2973, 4052..4165, 4316..4555, 4338..4556		

Seq. No.	54902	Seq. ID	OJ000302_13.0424.C5
Gene No.	115161	Strand	-
Start	854	End	5233
Name	OJ000302_13.0424.C5.o2.gp	Method	AAT/GAP
Start	2886	End	3239
GI	uC-osflcyp081e03b1	Score	449
Exons	2886..3066, 3159..3239		
GI Descrip.	'4249402 2.0e-84 (AC006072) unknown protein [Arabidopsis thaliana]'		

Seq. No.	54902	Seq. ID	OJ000302_13.0424.C5
Gene No.	115161	Strand	-
Start	854	End	5233
Name	OJ000302_13.0424.C5.o1.tw	Method	TBLASTX:Wheat
Start	4055	End	4626
GI	none	Score	246
Exons	4055..4162, 4381..4623, 4382..4624, 4382..4624, 4414..4626		

Seq. No.	54903	Seq. ID	OJ000302_13.0424.C7
Gene No.	115162	Strand	-
Start	55	End	333
Name	OJ000302_13.0424.C7.o1.gs	Method	GENSCAN
Start	55	End	333
GI	none	Score	.73
Exons	55..182, 244..333		

Seq. No.	54904	Seq. ID	OJ000302_13.0424.C8
Gene No.	115163	Strand	-
Start	778	End	1268
Name	OJ000302_13.0424.C8.o1.gs	Method	GENSCAN
Start	778	End	1268
GI	none	Score	.91
Exons	778..927, 936..1268		

Seq. No.	54905	Seq. ID	OJ000302_13.0424.C9
Gene No.	115164	Strand	+
Start	1300	End	8384
Name	OJ000302_13.0424.C9.o1.gs	Method	GENSCAN
Start	1300	End	8283
GI	none	Score	.65
Exons	1300..1513, 1944..2048, 2621..2769, 2859..3257, 3711..3813, 4023..4140, 4269..4495, 4643..4745, 4955..5025, 5668..5691, 5825..5899, 5990..6133, 6204..6327, 6444..7382, 7459..7520, 7620..7802, 7827..7901, 7982..8097, 8167..8283		

Seq. No.	54905	Seq. ID	OJ000302_13.0424.C9
Gene No.	115164	Strand	+
Start	1300	End	8384
Name	OJ000302_13.0424.C9.o1.np	Method	AAT/NAP
Start	3714	End	8384
GI	2443881	Score	949

Exons	3714..3869, 3993..4140, 4269..4495, 4643..4745, 4955..5025, 5825..5899, 5990..6133, 6204..6327, 7304..7358, 8333..8384		
GI Descrip.	(AC002294) contains beta-transducin motif [Arabidopsis thaliana]		

Seq. No.	54905	Seq. ID	OJ000302_13.0424.C9
Gene No.	115164	Strand	+
Start	1300	End	8384
Name	OJ000302_13.0424.C9.o1.tm	Method	TBLASTX:Maize
Start	4268	End	8081
GI	none	Score	70
Exons	4268..4381, 4271..4495, 4289..4498, 4294..4509, 4643..4756, 4645..4746, 4953..5021, 4953..5024, 4954..5025, 5824..5898, 5825..5899, 5983..6132, 5988..6125, 5993..6133, 6182..6325, 6205..6327, 6209..6331, 6210..6338, 6436..6516, 6443..6526, 6512..6949, 6517..6948, 6933..7025, 6939..7208, 6940..7377, 6941..7402, 7214..7384, 7602..7751, 7615..7746, 7824..7898, 7826..7903, 7827..7904, 7982..8080, 7998..8081, 8009..8080		

Seq. No.	54905	Seq. ID	OJ000302_13.0424.C9
Gene No.	115164	Strand	+
Start	1300	End	8384
Name	OJ000302_13.0424.C9.o1.tc	Method	TBLASTX:Cress
Start	5843	End	6130
GI	none	Score	73
Exons	5843..5902, 5845..5895, 5983..6129, 5990..6130		

Seq. No.	54905	Seq. ID	OJ000302_13.0424.C9
Gene No.	115164	Strand	+
Start	1300	End	8384
Name	OJ000302_13.0424.C9.o1.ts	Method	TBLASTX:Soybean
Start	7650	End	8322
GI	none	Score	88
Exons	7650..7751, 7827..7895, 7981..8058, 7982..8080, 8164..8322, 8165..8284, 8206..8310		

Seq. No.	54906	Seq. ID	OJ000302_13.0424.C10
Gene No.	115165	Strand	-
Start	1	End	1356
Name	OJ000302_13.0424.C10.o1.gp	Method	AAT/GAP
Start	1	End	314
GI	none	Score	592
Exons	1..314		

Seq. No.	54906	Seq. ID	OJ000302_13.0424.C10
Gene No.	115165	Strand	-
Start	1	End	1356
Name	OJ000302_13.0424.C10.o1.np	Method	AAT/NAP
Start	1	End	1356
GI	6759439	Score	259
Exons	1..401, 1208..1266, 1335..1356		
GI Descrip.	(AL137189) putative protein [Arabidopsis thaliana]		

Seq. No.	54906	Seq. ID	OJ000302_13.0424.C10
Gene No.	115165	Strand	-
Start	1	End	1356
Name	OJ000302_13.0424.C10.o2.tm	Method	TBLASTX:Maize
Start	2	End	222

GI	none	Score	142
Exons	2..136, 3..104, 123..194, 124..195, 125..196, 125..202, 179..220, 189..221, 196..222		

Seq. No.	54906	Seq. ID	OJ000302_13.0424.C10
Gene No.	115165	Strand	-
Start	1	End	1356
Name	OJ000302_13.0424.C10.o1.gs	Method	GENSCAN
Start	13	End	633
GI	none	Score	.76
Exons	13..401, 623..633		

Seq. No.	54906	Seq. ID	OJ000302_13.0424.C10
Gene No.	115165	Strand	-
Start	1	End	1356
Name	OJ000302_13.0424.C10.o1.ts	Method	TBLASTX:Soybean
Start	81	End	421
GI	none	Score	62
Exons	81..173, 188..421, 209..400		

Seq. No.	54906	Seq. ID	OJ000302_13.0424.C10
Gene No.	115165	Strand	-
Start	1	End	1356
Name	OJ000302_13.0424.C10.o1.tm	Method	TBLASTX:Maize
Start	236	End	1266
GI	none	Score	169
Exons	236..400, 260..406, 1205..1255, 1207..1266, 1209..1262		

Seq. No.	54907	Seq. ID	OJ000302_13.0424.C11
Gene No.	115166	Strand	+
Start	1122	End	2438
Name	OJ000302_13.0424.C11.o2.gs	Method	GENSCAN
Start	1122	End	2438
GI	none	Score	.73
Exons	1122..1179, 1417..1570, 1687..1724, 2386..2438		

Seq. No.	54907	Seq. ID	OJ000302_13.0424.C11
Gene No.	115167	Strand	-
Start	19	End	285
Name	OJ000302_13.0424.C11.o1.gs	Method	GENSCAN
Start	19	End	285
GI	none	Score	.59
Exons	19..285		

Seq. No.	54908	Seq. ID	OJ000302_13.0424.C12
Gene No.	115168	Strand	-
Start	1	End	3048
Name	OJ000302_13.0424.C12.o1.np	Method	AAT/NAP
Start	1	End	3043
GI	4063751	Score	556
Exons	1..65, 527..655, 867..1139, 1447..1641, 1742..1840, 1951..2115, 2211..2361, 2754..3043		
GI Descrip.	(AC005851) putative ABC transporter [Arabidopsis thaliana]		

Seq. No.	54908	Seq. ID	OJ000302_13.0424.C12
Gene No.	115168	Strand	-
Start	1	End	3048

Name	OJ000302_13.0424.C12.o1.gs	Method	GENSCAN
Start	313	End	3043
GI	none	Score	.85
Exons	313..388, 548..633, 867..1139, 1232..1318, 1447..1641, 1742..1870, 1972..2094, 2190..2361, 2754..3043		

Seq. No.	54908	Seq. ID	OJ000302_13.0424.C12
Gene No.	115168	Strand	-
Start	1	End	3048
Name	OJ000302_13.0424.C12.o1.ts	Method	TBLASTX:Soybean
Start	547	End	1542
GI	none	Score	127
Exons	547..657, 548..658, 549..656, 554..661, 859..939, 867..944, 867..1142, 868..1116, 1038..1157, 1227..1319, 1229..1318, 1230..1319, 1436..1540, 1441..1542		

Seq. No.	54908	Seq. ID	OJ000302_13.0424.C12
Gene No.	115168	Strand	-
Start	1	End	3048
Name	OJ000302_13.0424.C12.o1.tw	Method	TBLASTX:Wheat
Start	548	End	1070
GI	none	Score	95
Exons	548..655, 870..1070, 874..1020		

Seq. No.	54908	Seq. ID	OJ000302_13.0424.C12
Gene No.	115168	Strand	-
Start	1	End	3048
Name	OJ000302_13.0424.C12.o1.tm	Method	TBLASTX:Maize
Start	566	End	2304
GI	none	Score	72
Exons	566..658, 582..656, 859..939, 867..944, 867..1142, 868..1116, 1041..1142, 1227..1319, 1228..1350, 1229..1318, 1441..1641, 1448..1642, 1742..1867, 1746..1868, 1808..1876, 1967..2095, 1969..2097, 1970..2095, 1987..2097, 2190..2303, 2197..2304		

Seq. No.	54908	Seq. ID	OJ000302_13.0424.C12
Gene No.	115168	Strand	-
Start	1	End	3048
Name	OJ000302_13.0424.C12.o1.gp	Method	AAT/GAP
Start	611	End	2038
GI	47076_1.R1084	Score	1431
Exons	611..655, 867..1139, 1232..1318, 1447..1641, 1742..1870, 1972..2038		
GI Descrip.	'4063751 4.0e-21 (AC005851) putative white protein [Arabidopsis thaliana] >gi_4510409_gb_AAD21495.1_ (AC006929) putative white protein [Arabidopsis thaliana]'		

Seq. No.	54908	Seq. ID	OJ000302_13.0424.C12
Gene No.	115168	Strand	-
Start	1	End	3048
Name	OJ000302_13.0424.C12.o1.tc	Method	TBLASTX:Cress
Start	987	End	2360
GI	none	Score	118
Exons	987..1007, 1014..1142, 1015..1116, 1032..1142, 1227..1319, 1228..1320, 1229..1318, 1417..1641, 1448..1639, 1745..1870, 1961..2095, 1972..2097, 1978..2097, 2196..2360, 2197..2358		

Seq. No.	54908	Seq. ID	OJ000302_13.0424.C12
Gene No.	115168	Strand	-
Start	1	End	3048
Name	OJ000302_13.0424.C12.o2.ts	Method	TBLASTX:Soybean
Start	1543	End	2834
GI	none	Score	108
Exons	1543..1641, 1544..1639, 1742..1870, 1809..1862, 1961..2095, 1972..2097, 1998..2096, 2196..2363, 2197..2364, 2210..2365, 2754..2834, 2754..2822, 2755..2829, 2756..2833		

Seq. No.	54908	Seq. ID	OJ000302_13.0424.C12
Gene No.	115168	Strand	-
Start	1	End	3048
Name	OJ000302_13.0424.C12.o2.tm	Method	TBLASTX:Maize
Start	2310	End	3048
GI	none	Score	90
Exons	2310..2363, 2311..2370, 2754..3047, 2755..3045, 2756..3046, 2929..3048		

Seq. No.	54908	Seq. ID	OJ000302_13.0424.C12
Gene No.	115168	Strand	-
Start	1	End	3048
Name	OJ000302_13.0424.C12.o2.tc	Method	TBLASTX:Cress
Start	2754	End	3043
GI	none	Score	85
Exons	2754..2825, 2756..2824, 2812..3039, 2823..3038, 2825..3043		

Seq. No.	54908	Seq. ID	OJ000302_13.0424.C12
Gene No.	115168	Strand	-
Start	1	End	3048
Name	OJ000302_13.0424.C12.o3.ts	Method	TBLASTX:Soybean
Start	2835	End	3043
GI	none	Score	177
Exons	2835..3038, 2837..3043		

Seq. No.	54909	Seq. ID	OJ000302_13.0424.C13
Gene No.	115169	Strand	-
Start	1577	End	1662
Name	OJ000302_13.0424.C13.o1.gp	Method	AAT/GAP
Start	1577	End	1662
GI	5867_1.R1084	Score	113
Exons	1577..1662		
GI Descrip.	'464986/sp|P35132|UBC9_ARATH 5.0e-58 UBIQUITIN-CONJUGATING ENZYME E2-17 KD 9 (UBIQUITIN-PROTEIN LIGASE 9) (UBIQUITIN CARRIER PROTEIN 9) (UBCAT4B) >gi_421857_pir__S32674 ubiquitin--protein ligase (EC 6.3.2.19) UBC9 - Arabidopsis thaliana >gi_297884_emb_CAA78714_ (Z14990) ubiquitin conjugating enzyme homolog [Arabidopsis thaliana] >gi_349211 (L00639) ubiquitin conjugating enzyme [Arabidopsis'		

Seq. No.	54910	Seq. ID	OJ000302_13.0424.C14
Gene No.	115170	Strand	+
Start	460	End	566
Name	OJ000302_13.0424.C14.o1.gs	Method	GENSCAN
Start	460	End	566
GI	none	Score	.81
Exons	460..566		

Seq. No.	54910	Seq. ID	OJ000302_13.0424.C14
Gene No.	115171	Strand	+
Start	1388	End	1647
Name	OJ000302_13.0424.C14.o1.gp	Method	AAT/GAP
Start	1388	End	1647
GI	LIB3431-010-P1-N1-F11	Score	453
Exons	1388..1647		
GI Descrip.	'287403/dbj|D10838|RICSBE1 1.0e-111 Rice gene for starch branching enzyme'		

Seq. No.	54911	Seq. ID	OJ000302_13.0424.C15
Gene No.	115172	Strand	+
Start	174	End	317
Name	OJ000302_13.0424.C15.o1.gs	Method	GENSCAN
Start	174	End	317
GI	none	Score	.58
Exons	174..317		

Seq. No.	54911	Seq. ID	OJ000302_13.0424.C15
Gene No.	115173	Strand	-
Start	1024	End	4764
Name	OJ000302_13.0424.C15.o2.gs	Method	GENSCAN
Start	1024	End	4764
GI	none	Score	.76
Exons	1024..1137, 1485..1613, 1778..1867, 1993..2119, 2473..2537, 2790..2909, 3103..3174, 3271..3321, 3768..3875, 4087..4176, 4630..4764		

Seq. No.	54911	Seq. ID	OJ000302_13.0424.C15
Gene No.	115173	Strand	-
Start	1024	End	4764
Name	OJ000302_13.0424.C15.o1.tm	Method	TBLASTX:Maize
Start	1250	End	1587
GI	none	Score	166
Exons	1250..1339, 1266..1388, 1270..1389, 1482..1583, 1482..1586, 1486..1587		

Seq. No.	54911	Seq. ID	OJ000302_13.0424.C15
Gene No.	115173	Strand	-
Start	1024	End	4764
Name	OJ000302_13.0424.C15.o1.tc	Method	TBLASTX:Cress
Start	1281	End	1577
GI	none	Score	89
Exons	1281..1388, 1285..1389, 1482..1577, 1486..1560		

Seq. No.	54911	Seq. ID	OJ000302_13.0424.C15
Gene No.	115173	Strand	-
Start	1024	End	4764
Name	OJ000302_13.0424.C15.o1.np	Method	AAT/NAP
Start	1284	End	4280
GI	3687224	Score	926
Exons	1284..1388, 1485..1613, 1778..1867, 1993..2072, 2284..2364, 2477..2537, 2790..2909, 3103..3174, 3396..3514, 3768..3875, 4087..4280		
GI Descrip.	(AC005169) putative N-acetyl-gamma-glutamyl-phosphate reductase [Arabidopsis thaliana]		

Seq. No.	54911	Seq. ID	OJ000302_13.0424.C15
Gene No.	115173	Strand	-
Start	1024	End	4764
Name	OJ000302_13.0424.C15.o2.ts	Method	TBLASTX:Soybean
Start	1290	End	2071
GI	none	Score	88
Exons	1290..1388, 1306..1389, 1482..1616, 1486..1611, 1778..1876, 1797..1865, 1993..2070, 1994..2071		

Seq. No.	54911	Seq. ID	OJ000302_13.0424.C15
Gene No.	115173	Strand	-
Start	1024	End	4764
Name	OJ000302_13.0424.C15.o1.tw	Method	TBLASTX:Wheat
Start	1848	End	2904
GI	none	Score	41
Exons	1848..1868, 1848..1868, 1990..2067, 1993..2070, 1994..2071, 2233..2364, 2284..2367, 2285..2365, 2460..2555, 2462..2554, 2475..2561, 2476..2559, 2790..2903, 2790..2903, 2791..2904		

Seq. No.	54911	Seq. ID	OJ000302_13.0424.C15
Gene No.	115173	Strand	-
Start	1024	End	4764
Name	OJ000302_13.0424.C15.o2.tm	Method	TBLASTX:Maize
Start	2027	End	3300
GI	none	Score	57
Exons	2027..2071, 2029..2070, 2284..2370, 2285..2365, 2289..2375, 2292..2369, 2460..2555, 2475..2561, 2476..2559, 2788..2913, 2790..2915, 2791..2907, 3103..3174, 3103..3174, 3104..3181, 3251..3298, 3271..3300		

Seq. No.	54911	Seq. ID	OJ000302_13.0424.C15
Gene No.	115173	Strand	-
Start	1024	End	4764
Name	OJ000302_13.0424.C15.o3.ts	Method	TBLASTX:Soybean
Start	2327	End	2915
GI	none	Score	70
Exons	2327..2365, 2475..2561, 2476..2559, 2767..2907, 2790..2912, 2790..2915		

Seq. No.	54911	Seq. ID	OJ000302_13.0424.C15
Gene No.	115173	Strand	-
Start	1024	End	4764
Name	OJ000302_13.0424.C15.o1.ts	Method	TBLASTX:Soybean
Start	3103	End	4176
GI	none	Score	78
Exons	3103..3174, 3110..3181, 3254..3325, 3271..3321, 3272..3325, 3449..3541, 3459..3554, 3771..3878, 3772..3870, 4081..4176		

Seq. No.	54911	Seq. ID	OJ000302_13.0424.C15
Gene No.	115173	Strand	-
Start	1024	End	4764
Name	OJ000302_13.0424.C15.o3.tm	Method	TBLASTX:Maize
Start	3433	End	4388
GI	none	Score	43
Exons	3433..3483, 3434..3484, 3482..3544, 3483..3554, 3766..3876, 3766..3876, 3767..3877, 3768..3878, 4081..4188, 4081..4188,		

4302..4388

Seq. No.	54912	Seq. ID	OJ000302_13.0424.C18
Gene No.	115174	Strand	+
Start	100	End	526
Name	OJ000302_13.0424.C18.o1.gs	Method	GENSCAN
Start	100	End	526
GI	none	Score	.79
Exons	100..149, 486..526		

Seq. No.	54913	Seq. ID	OJ000302_13.0424.C20
Gene No.	115176	Strand	+
Start	720	End	3017
Name	OJ000302_13.0424.C20.o1.gs	Method	GENSCAN
Start	720	End	3017
GI	none	Score	.65
Exons	720..837, 1605..1689, 2905..3017		

Seq. No.	54914	Seq. ID	OJ000302_13.0424.C21
Gene No.	115177	Strand	+
Start	1	End	9642
Name	OJ000302_13.0424.C21.o1.np	Method	AAT/NAP
Start	1	End	3905
GI	6723961	Score	991
Exons	1..282, 358..522, 645..719, 1109..1212, 1295..1370, 1994..2116, 2226..2369, 2680..2895, 3067..3300, 3504..3905		
GI Descrip.	(AL136535) DNA-directed RNA polymerase subunit [Schizosaccharomyces pombe]		

Seq. No.	54914	Seq. ID	OJ000302_13.0424.C21
Gene No.	115177	Strand	+
Start	1	End	9642
Name	OJ000302_13.0424.C21.o1.gs	Method	GENSCAN
Start	158	End	9642
GI	none	Score	.78
Exons	158..216, 222..282, 358..522, 645..719, 1109..1212, 1295..1370, 1994..2116, 2226..2369, 2683..2895, 3067..3300, 3504..3767, 4705..4822, 4911..5035, 6502..6573, 6670..6990, 7658..7750, 8046..8252, 8332..8538, 8616..8702, 8788..8882, 9101..9235, 9321..9642		

Seq. No.	54914	Seq. ID	OJ000302_13.0424.C21
Gene No.	115177	Strand	+
Start	1	End	9642
Name	OJ000302_13.0424.C21.o2.np	Method	AAT/NAP
Start	6502	End	9579
GI	4309744	Score	1282
Exons	6502..6580, 6653..7179, 7287..7600, 7929..8252, 8332..8538, 8616..8702, 8788..8882, 9101..9259, 9317..9579		
GI Descrip.	(AC006439) unknown protein [Arabidopsis thaliana]		

Seq. No.	54914	Seq. ID	OJ000302_13.0424.C21
Gene No.	115177	Strand	+
Start	1	End	9642
Name	OJ000302_13.0424.C21.o1.gp	Method	AAT/GAP
Start	9197	End	9593
GI	uC-osflcyp084d11a1	Score	420

Exons	9197..9235, 9321..9593		
GI Descrip.	'5103812/gb|AAD39642.1|AC007591_7 4.0e-11 (AC007591) Similar to gb_AJ005073 Alix (ALG-2-interacting protein X) from Mus musculus. ESTs gb_R90133, gb_Z17944 and gb_AA605465 come from this gene. [Arabidopsis thaliana]'		

Seq. No.	54914	Seq. ID	OJ000302_13.0424.C21
Gene No.	115178	Strand	+
Start	10894	End	12046
Name	OJ000302_13.0424.C21.o2.gs	Method	GENSCAN
Start	10894	End	12046
GI	none	Score	.97
Exons	10894..11150, 11159..11361, 11545..11707, 11764..12046		

Seq. No.	54914	Seq. ID	OJ000302_13.0424.C21
Gene No.	115179	Strand	+
Start	13130	End	13644
Name	OJ000302_13.0424.C21.o1.ts	Method	TBLASTX:Soybean
Start	117	End	1165
GI	none	Score	97
Exons	117..284, 117..284, 118..285, 356..520, 357..521, 361..546, 366..521, 642..719, 644..670, 1102..1164, 1106..1165		

Seq. No.	54914	Seq. ID	OJ000302_13.0424.C21
Gene No.	115179	Strand	+
Start	13130	End	13644
Name	OJ000302_13.0424.C21.o3.tm	Method	TBLASTX:Maize
Start	1104	End	2389
GI	none	Score	145
Exons	1104..1211, 1106..1213, 1108..1212, 1269..1370, 1297..1371, 1297..1368, 1298..1369, 1986..2117, 1991..2122, 1993..2121, 2222..2368, 2223..2369, 2237..2389		

Seq. No.	54914	Seq. ID	OJ000302_13.0424.C21
Gene No.	115179	Strand	+
Start	13130	End	13644
Name	OJ000302_13.0424.C21.o1.tc	Method	TBLASTX:Cress
Start	2223	End	2895
GI	none	Score	87
Exons	2223..2339, 2685..2891, 2692..2895		

Seq. No.	54914	Seq. ID	OJ000302_13.0424.C21
Gene No.	115179	Strand	+
Start	13130	End	13644
Name	OJ000302_13.0424.C21.o2.ts	Method	TBLASTX:Soybean
Start	3133	End	3854
GI	none	Score	241
Exons	3133..3303, 3135..3302, 3139..3306, 3176..3313, 3498..3677, 3501..3731, 3638..3715, 3708..3854, 3731..3853		

Seq. No.	54914	Seq. ID	OJ000302_13.0424.C21
Gene No.	115179	Strand	+
Start	13130	End	13644
Name	OJ000302_13.0424.C21.o1.tm	Method	TBLASTX:Maize
Start	3141	End	3923
GI	none	Score	189
Exons	3141..3302, 3142..3306, 3149..3307, 3151..3303, 3501..3923,		

3501..3908, 3724..3915

Seq. No.	54914	Seq. ID	OJ000302_13.0424.C21
Gene No.	115179	Strand	+
Start	13130	End	13644
Name	OJ000302_13.0424.C21.o2.tm	Method	TBLASTX:Maize
Start	8110	End	8832
GI	none	Score	168
Exons	8110..8253, 8121..8255, 8121..8258, 8322..8537, 8322..8531, 8323..8541, 8329..8538, 8610..8702, 8613..8696, 8615..8701, 8785..8832, 8790..8828		

Seq. No.	54914	Seq. ID	OJ000302_13.0424.C21
Gene No.	115179	Strand	+
Start	13130	End	13644
Name	OJ000302_13.0424.C21.o2.gp	Method	AAT/GAP
Start	13130	End	13644
GI	5004386	Score	867
Exons	13130..13644		

Seq. No.	54915	Seq. ID	OJ000302_13.0424.C23
Gene No.	115180	Strand	-
Start	1	End	739
Name	OJ000302_13.0424.C23.o1.np	Method	AAT/NAP
Start	1	End	645
GI	5103812	Score	727
Exons	1..645		
GI Descrip.	(AC007591) Similar to gb|AJ005073 Alix (ALG-2-interacting protein X) from Mus musculus. ESTs gb|R90133, gb|Z17944 and gb|AA605465 come from this gene. [Arabidopsis thaliana]		

Seq. No.	54915	Seq. ID	OJ000302_13.0424.C23
Gene No.	115180	Strand	-
Start	1	End	739
Name	OJ000302_13.0424.C23.o1.tm	Method	TBLASTX:Maize
Start	1	End	739
GI	none	Score	771
Exons	1..723, 1..717, 2..739, 2..718		

Seq. No.	54915	Seq. ID	OJ000302_13.0424.C23
Gene No.	115180	Strand	-
Start	1	End	739
Name	OJ000302_13.0424.C23.o1.gs	Method	GENSCAN
Start	120	End	714
GI	none	Score	.8
Exons	120..714		

Seq. No.	54915	Seq. ID	OJ000302_13.0424.C23
Gene No.	115180	Strand	-
Start	1	End	739
Name	OJ000302_13.0424.C23.o1.gp	Method	AAT/GAP
Start	369	End	593
GI	2427958	Score	381
Exons	369..593		
GI Descrip.	5103812/gb|AAD39642.1|AC007591_7 4.0e-11 (AC007591) Similar to gb_AJ005073 Alix (ALG-2-interacting protein X) from Mus musculus. ESTs gb_R90133, gb_Z17944 and gb_AA605465 come from		

this gene. [Arabidopsis thaliana]

Seq. No.	54915	Seq. ID	OJ000302_13.0424.C23
Gene No.	115180	Strand	-
Start	1	End	739
Name	OJ000302_13.0424.C23.o1.ts	Method	TBLASTX:Soybean
Start	466	End	723
GI	none	Score	91
Exons	466..717, 476..658, 496..723		

Seq. No.	54916	Seq. ID	OJ000322_13.0420.C2
Gene No.	115181	Strand	+
Start	175	End	287
Name	OJ000322_13.0420.C2.o1.gs	Method	GENSCAN
Start	175	End	287
GI	none	Score	.66
Exons	175..287		

Seq. No.	54916	Seq. ID	OJ000322_13.0420.C2
Gene No.	115182	Strand	-
Start	907	End	3616
Name	OJ000322_13.0420.C2.o1.gp	Method	AAT/GAP
Start	584	End	3606
GI	15081_1.R1084	Score	3079
Exons	584..1133, 1210..1491, 1576..1733, 1956..2173, 2541..2771, 3281..3318, 3452..3606		
GI Descrip.	'3450842 8.0e-91 (AF080436) mitogen activated protein kinase kinase [Oryza sativa]'		

Seq. No.	54916	Seq. ID	OJ000322_13.0420.C2
Gene No.	115182	Strand	-
Start	907	End	3616
Name	OJ000322_13.0420.C2.o2.gs	Method	GENSCAN
Start	907	End	3616
GI	none	Score	.81
Exons	907..1133, 1210..1366, 1576..1733, 1956..2173, 2541..2771, 3302..3399, 3489..3616		

Seq. No.	54916	Seq. ID	OJ000322_13.0420.C2
Gene No.	115182	Strand	-
Start	907	End	3616
Name	OJ000322_13.0420.C2.o1.tm	Method	TBLASTX:Maize
Start	970	End	2596
GI	none	Score	76
Exons	970..1119, 970..1176, 971..1159, 1381..1491, 1582..1734, 1586..1735, 1608..1739, 1978..2172, 1979..2170, 2537..2596		

Seq. No.	54916	Seq. ID	OJ000322_13.0420.C2
Gene No.	115182	Strand	-
Start	907	End	3616
Name	OJ000322_13.0420.C2.o1.np	Method	AAT/NAP
Start	1357	End	3526
GI	5932543	Score	648
Exons	1357..1491, 1576..1745, 1965..2173, 2541..2771, 3281..3318, 3452..3526		
GI Descrip.	(AC009465) putative mitogen activated protein kinase kinase [Arabidopsis thaliana]		

Seq. No.	54916	Seq. ID	OJ000322_13.0420.C2
Gene No.	115182	Strand	-
Start	907	End	3616
Name	OJ000322_13.0420.C2.o1.tc	Method	TBLASTX:Cress
Start	1381	End	2170
GI	none	Score	82
Exons	1381..1485, 1575..1724, 1582..1725, 1582..1734, 1586..1735, 1974..2126, 1975..2169, 1976..2170		

Seq. No.	54916	Seq. ID	OJ000322_13.0420.C2
Gene No.	115182	Strand	-
Start	907	End	3616
Name	OJ000322_13.0420.C2.o1.ts	Method	TBLASTX:Soybean
Start	1384	End	1734
GI	none	Score	58
Exons	1384..1467, 1384..1491, 1388..1498, 1582..1722, 1582..1734, 1613..1732		

Seq. No.	54916	Seq. ID	OJ000322_13.0420.C2
Gene No.	115182	Strand	-
Start	907	End	3616
Name	OJ000322_13.0420.C2.o2.ts	Method	TBLASTX:Soybean
Start	1975	End	2175
GI	none	Score	147
Exons	1975..2175, 1976..2173		

Seq. No.	54916	Seq. ID	OJ000322_13.0420.C2
Gene No.	115182	Strand	-
Start	907	End	3616
Name	OJ000322_13.0420.C2.o3.ts	Method	TBLASTX:Soybean
Start	2537	End	2770
GI	none	Score	87
Exons	2537..2710, 2538..2672, 2702..2770		

Seq. No.	54917	Seq. ID	OJ000322_13.0420.C6
Gene No.	115183	Strand	+
Start	932	End	6064
Name	OJ000322_13.0420.C6.o1.np	Method	AAT/NAP
Start	932	End	6064
GI	4539658	Score	128
Exons	932..968, 2642..2777, 3073..3211, 6042..6064		
GI Descrip.	(AF061282) serine carboxypeptidase-like protein [Sorghum bicolor]		

Seq. No.	54918	Seq. ID	OJ000322_13.0420.C7
Gene No.	115184	Strand	-
Start	1	End	1148
Name	OJ000322_13.0420.C7.o1.np	Method	AAT/NAP
Start	1	End	1142
GI	6692675	Score	199
Exons	1..202, 902..1142		
GI Descrip.	(AC007592) F12K11.2 [Arabidopsis thaliana]		

Seq. No.	54918	Seq. ID	OJ000322_13.0420.C7
Gene No.	115184	Strand	-
Start	1	End	1148

Name	OJ000322_13.0420.C7.o1.gs	Method	GENSCAN
Start	112	End	1148
GI	none	Score	.69
Exons	112..320, 902..1148		

Seq. No.	54918	Seq. ID	OJ000322_13.0420.C7
Gene No.	115184	Strand	-
Start	1	End	1148
Name	OJ000322_13.0420.C7.o1.gp	Method	AAT/GAP
Start	143	End	542
GI	none	Score	744
Exons	143..542		

Seq. No.	54919	Seq. ID	OJ000322_13.0420.C8
Gene No.	115185	Strand	-
Start	1	End	1143
Name	OJ000322_13.0420.C8.o1.np	Method	AAT/NAP
Start	1	End	1143
GI	6630696	Score	837
Exons	1..125, 556..1143		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	54919	Seq. ID	OJ000322_13.0420.C8
Gene No.	115185	Strand	-
Start	1	End	1143
Name	OJ000322_13.0420.C8.o1.gs	Method	GENSCAN
Start	343	End	630
GI	none	Score	.48
Exons	343..502, 539..630		

Seq. No.	54919	Seq. ID	OJ000322_13.0420.C8
Gene No.	115185	Strand	-
Start	1	End	1143
Name	OJ000322_13.0420.C8.o1.tm	Method	TBLASTX:Maize
Start	611	End	941
GI	none	Score	300
Exons	611..940, 612..941		

Seq. No.	54919	Seq. ID	OJ000322_13.0420.C8
Gene No.	115185	Strand	-
Start	1	End	1143
Name	OJ000322_13.0420.C8.o1.ts	Method	TBLASTX:Soybean
Start	743	End	1111
GI	none	Score	77
Exons	743..931, 744..932, 927..1091, 932..1111		

Seq. No.	54920	Seq. ID	OJ000322_13.0420.C9
Gene No.	115186	Strand	-
Start	83	End	719
Name	OJ000322_13.0420.C9.o1.np	Method	AAT/NAP
Start	83	End	541
GI	7443219	Score	733
Exons	83..541		
GI Descrip.	probable photosystem II oxygen-evolving complex protein 2 precursor - rice gi|4079798|gb|AAC98778.1| (AF052203) 23 kDa		

polypeptide of photosystem II [Oryza sativa]

Seq. No.	54920	Seq. ID	OJ000322_13.0420.C9
Gene No.	115186	Strand	-
Start	83	End	719
Name	OJ000322_13.0420.C9.o1.tm	Method	TBLASTX:Maize
Start	83	End	544
GI	none	Score	239
Exons	83..319, 87..314, 419..457, 419..475, 470..493, 471..494, 491..544, 492..542		

Seq. No.	54920	Seq. ID	OJ000322_13.0420.C9
Gene No.	115186	Strand	-
Start	83	End	719
Name	OJ000322_13.0420.C9.o1.ts	Method	TBLASTX:Soybean
Start	83	End	601
GI	none	Score	172
Exons	83..319, 87..314, 410..469, 479..601		

Seq. No.	54920	Seq. ID	OJ000322_13.0420.C9
Gene No.	115186	Strand	-
Start	83	End	719
Name	OJ000322_13.0420.C9.o1.tc	Method	TBLASTX:Cress
Start	83	End	541
GI	none	Score	190
Exons	83..319, 96..314, 452..541		

Seq. No.	54920	Seq. ID	OJ000322_13.0420.C9
Gene No.	115186	Strand	-
Start	83	End	719
Name	OJ000322_13.0420.C9.o1.tw	Method	TBLASTX:Wheat
Start	84	End	719
GI	none	Score	242
Exons	84..134, 86..313, 87..314, 488..646, 651..719		

Seq. No.	54920	Seq. ID	OJ000322_13.0420.C9
Gene No.	115186	Strand	-
Start	83	End	719
Name	OJ000322_13.0420.C9.o1.gp	Method	AAT/GAP
Start	88	End	695
GI	555_1.R1084	Score	1121
Exons	88..695		
GI Descrip.	'4079798 1.0e-121 (AF052203) 23 kDa polypeptide of photosystem II [Oryza sativa]'		

Seq. No.	54920	Seq. ID	OJ000322_13.0420.C9
Gene No.	115186	Strand	-
Start	83	End	719
Name	OJ000322_13.0420.C9.o1.gs	Method	GENSCAN
Start	89	End	541
GI	none	Score	1
Exons	89..541		

Seq. No.	54921	Seq. ID	OJ000322_13.0420.C11
Gene No.	115187	Strand	+
Start	3072	End	3527
Name	OJ000322_13.0420.C11.o2.gs	Method	GENSCAN

Start	3072	End	3527
GI	none	Score	.93
Exons	3072..3527		

Seq. No.	54921	Seq. ID	OJ000322_13.0420.C11
Gene No.	115188	Strand	-
Start	357	End	1902
Name	OJ000322_13.0420.C11.o1.gs	Method	GENSCAN
Start	357	End	1902
GI	none	Score	.83
Exons	357..451, 530..581, 1146..1248, 1598..1673, 1791..1902		

Seq. No.	54921	Seq. ID	OJ000322_13.0420.C11
Gene No.	115189	Strand	-
Start	4443	End	4804
Name	OJ000322_13.0420.C11.o1.np	Method	AAT/NAP
Start	4443	End	4804
GI	6630696	Score	559
Exons	4443..4804		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	54921	Seq. ID	OJ000322_13.0420.C11
Gene No.	115189	Strand	-
Start	4443	End	4804
Name	OJ000322_13.0420.C11.o1.tw	Method	TBLASTX:Wheat
Start	4579	End	4804
GI	none	Score	67
Exons	4579..4632, 4581..4664, 4617..4664, 4665..4799, 4667..4804, 4667..4804		

Seq. No.	54922	Seq. ID	OJ000322_13.0420.C16
Gene No.	115190	Strand	-
Start	480	End	557
Name	OJ000322_13.0420.C16.o1.gs	Method	GENSCAN
Start	480	End	557
GI	none	Score	.73
Exons	480..557		

Seq. No.	54923	Seq. ID	OJ000322_13.0420.C17
Gene No.	115191	Strand	-
Start	1	End	108
Name	OJ000322_13.0420.C17.o1.gp	Method	AAT/GAP
Start	1	End	108
GI	2800133	Score	176
Exons	1..108		

Seq. No.	54923	Seq. ID	OJ000322_13.0420.C17
Gene No.	115192	Strand	-
Start	112	End	747
Name	OJ000322_13.0420.C17.o2.gp	Method	AAT/GAP
Start	112	End	747
GI	none	Score	1120
Exons	112..747		

Seq. No.	54923	Seq. ID	OJ000322_13.0420.C17

Gene No.	115192	Strand	-
Start	112	End	747
Name	OJ000322_13.0420.C17.o1.gs	Method	GENSCAN
Start	535	End	695
GI	none	Score	.98
Exons	535..695		

Seq. No.	54924	Seq. ID	OJ000322_13.0420.C20
Gene No.	115193	Strand	-
Start	1	End	733
Name	OJ000322_13.0420.C20.o1.np	Method	AAT/NAP
Start	1	End	733
GI	5091617	Score	395
Exons	1..197, 267..733		
GI Descrip.	(AC007454) Contains similarity to gi|479356 protein kinase PK1 from Zea mays, is a member of the PF|00954 S-locus glycoprotein family and contains a PF|00069 Eukaryotic protein kinase domain. [Arabidopsis thaliana]		

Seq. No.	54924	Seq. ID	OJ000322_13.0420.C20
Gene No.	115193	Strand	-
Start	1	End	733
Name	OJ000322_13.0420.C20.o1.tc	Method	TBLASTX:Cress
Start	11	End	731
GI	none	Score	86
Exons	11..145, 18..122, 338..457, 470..604, 681..731		

Seq. No.	54924	Seq. ID	OJ000322_13.0420.C20
Gene No.	115193	Strand	-
Start	1	End	733
Name	OJ000322_13.0420.C20.o1.gs	Method	GENSCAN
Start	26	End	710
GI	none	Score	.85
Exons	26..592, 594..710		

Seq. No.	54924	Seq. ID	OJ000322_13.0420.C20
Gene No.	115193	Strand	-
Start	1	End	733
Name	OJ000322_13.0420.C20.o1.tm	Method	TBLASTX:Maize
Start	35	End	604
GI	none	Score	122
Exons	35..133, 209..451, 467..604		

Seq. No.	54924	Seq. ID	OJ000322_13.0420.C20
Gene No.	115193	Strand	-
Start	1	End	733
Name	OJ000322_13.0420.C20.o1.ts	Method	TBLASTX:Soybean
Start	53	End	583
GI	none	Score	130
Exons	53..199, 254..583, 264..452		

Seq. No.	54924	Seq. ID	OJ000322_13.0420.C20
Gene No.	115193	Strand	-
Start	1	End	733
Name	OJ000322_13.0420.C20.o1.tw	Method	TBLASTX:Wheat
Start	335	End	589
GI	none	Score	47

Exons	335..589, 375..452		
Seq. No.	54925	Seq. ID	OJ000322_13.0420.C21
Gene No.	115194	Strand	+
Start	1268	End	4905
Name	OJ000322_13.0420.C21.o1.tc	Method	TBLASTX:Cress
Start	1258	End	1633
GI	none	Score	105
Exons	1258..1344, 1259..1345, 1427..1633, 1507..1611		
Seq. No.	54925	Seq. ID	OJ000322_13.0420.C21
Gene No.	115194	Strand	+
Start	1268	End	4905
Name	OJ000322_13.0420.C21.o1.ts	Method	TBLASTX:Soybean
Start	1258	End	4905
GI	none	Score	184
Exons	1258..1395, 1265..1396, 1399..1632, 1424..1633, 1812..1913, 1829..1912, 4493..4627, 4494..4628, 4723..4803, 4724..4816, 4810..4905, 4811..4903		
Seq. No.	54925	Seq. ID	OJ000322_13.0420.C21
Gene No.	115194	Strand	+
Start	1268	End	4905
Name	OJ000322_13.0420.C21.o1.tm	Method	TBLASTX:Maize
Start	1267	End	4894
GI	none	Score	397
Exons	1267..1341, 1268..1633, 1348..1395, 1439..1621, 1510..1632, 1812..1847, 1829..1912, 1830..1916, 4496..4621, 4497..4625, 4508..4630, 4723..4893, 4727..4894		
Seq. No.	54925	Seq. ID	OJ000322_13.0420.C21
Gene No.	115194	Strand	+
Start	1268	End	4905
Name	OJ000322_13.0420.C21.o1.tw	Method	TBLASTX:Wheat
Start	1267	End	1614
GI	none	Score	181
Exons	1267..1395, 1268..1396, 1399..1614, 1424..1612		
Seq. No.	54925	Seq. ID	OJ000322_13.0420.C21
Gene No.	115194	Strand	+
Start	1268	End	4905
Name	OJ000322_13.0420.C21.o1.gs	Method	GENSCAN
Start	1268	End	3000
GI	none	Score	.79
Exons	1268..1633, 1830..1917, 2879..3000		
Seq. No.	54925	Seq. ID	OJ000322_13.0420.C21
Gene No.	115194	Strand	+
Start	1268	End	4905
Name	OJ000322_13.0420.C21.o1.np	Method	AAT/NAP
Start	1268	End	4905
GI	5777631	Score	750
Exons	1268..1633, 1830..1917, 4495..4627, 4726..4905		
GI Descrip.	(AJ245900) CAA303719.1 protein [Oryza sativa]		
Seq. No.	54925	Seq. ID	OJ000322_13.0420.C21
Gene No.	115194	Strand	+

Start	1268	End	4905
Name	OJ000322_13.0420.C21.o1.gp	Method	AAT/GAP
Start	4478	End	4905
GI	LIB3432-027-P1-K1-F7	Score	772
Exons	4478..4905		
GI Descrip.	'5080765/gb|AAD39275.1|AC007203_7 1.0e-32 (AC007203) Hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	54925	Seq. ID	OJ000322_13.0420.C21
Gene No.	115194	Strand	+
Start	1268	End	4905
Name	OJ000322_13.0420.C21.o2.tc	Method	TBLASTX:Cress
Start	4493	End	4905
GI	none	Score	152
Exons	4493..4627, 4494..4628, 4723..4788, 4724..4783, 4778..4903, 4810..4905		

Seq. No.	54925	Seq. ID	OJ000322_13.0420.C21
Gene No.	115194	Strand	+
Start	1268	End	4905
Name	OJ000322_13.0420.C21.o2.tw	Method	TBLASTX:Wheat
Start	4545	End	4905
GI	none	Score	65
Exons	4545..4628, 4592..4627, 4723..4860, 4724..4867, 4853..4903, 4867..4905		

Seq. No.	54926	Seq. ID	OJ000322_13.0420.C22
Gene No.	115195	Strand	+
Start	1	End	394
Name	OJ000322_13.0420.C22.o1.gp	Method	AAT/GAP
Start	1	End	159
GI	11838_1.R1084	Score	318
Exons	1..159		
GI Descrip.	'5777631/emb|CAB53492.1| 3.0e-82 (AJ245900) CAA303719.1 protein [Oryza sativa]'		

Seq. No.	54926	Seq. ID	OJ000322_13.0420.C22
Gene No.	115195	Strand	+
Start	1	End	394
Name	OJ000322_13.0420.C22.o1.np	Method	AAT/NAP
Start	1	End	394
GI	5777631	Score	400
Exons	1..394		
GI Descrip.	(AJ245900) CAA303719.1 protein [Oryza sativa]		

Seq. No.	54926	Seq. ID	OJ000322_13.0420.C22
Gene No.	115196	Strand	-
Start	384	End	751
Name	OJ000322_13.0420.C22.o1.tm	Method	TBLASTX:Maize
Start	31	End	426
GI	none	Score	199
Exons	31..195, 32..196, 34..255, 62..196, 260..406, 265..426		

Seq. No.	54926	Seq. ID	OJ000322_13.0420.C22
Gene No.	115196	Strand	-
Start	384	End	751
Name	OJ000322_13.0420.C22.o1.ts	Method	TBLASTX:Soybean

Start	47	End	423
GI	none	Score	214
Exons	47..196, 61..186, 68..196, 76..240, 260..400, 260..400, 265..423		

Seq. No.	54926	Seq. ID	OJ000322_13.0420.C22
Gene No.	115196	Strand	-
Start	384	End	751
Name	OJ000322_13.0420.C22.o1.tc	Method	TBLASTX:Cress
Start	62	End	424
GI	none	Score	205
Exons	62..196, 67..195, 260..424, 260..394, 265..399		

Seq. No.	54926	Seq. ID	OJ000322_13.0420.C22
Gene No.	115196	Strand	-
Start	384	End	751
Name	OJ000322_13.0420.C22.o2.tw	Method	TBLASTX:Wheat
Start	74	End	196
GI	none	Score	211
Exons	74..196, 76..192, 80..196		

Seq. No.	54926	Seq. ID	OJ000322_13.0420.C22
Gene No.	115196	Strand	-
Start	384	End	751
Name	OJ000322_13.0420.C22.o1.tw	Method	TBLASTX:Wheat
Start	260	End	408
GI	none	Score	216
Exons	260..397, 263..397, 264..398, 271..408		

Seq. No.	54926	Seq. ID	OJ000322_13.0420.C22
Gene No.	115196	Strand	-
Start	384	End	751
Name	OJ000322_13.0420.C22.o2.gp	Method	AAT/GAP
Start	384	End	751
GI	none	Score	672
Exons	384..751		

Seq. No.	54927	Seq. ID	OJ000322_13.0420.C23
Gene No.	115197	Strand	+
Start	1	End	373
Name	OJ000322_13.0420.C23.o1.np	Method	AAT/NAP
Start	1	End	373
GI	6735330	Score	280
Exons	1..155, 243..373		
GI Descrip.	(AL137081) putative protein [Arabidopsis thaliana]		

Seq. No.	54927	Seq. ID	OJ000322_13.0420.C23
Gene No.	115198	Strand	-
Start	321	End	858
Name	OJ000322_13.0420.C23.o1.tw	Method	TBLASTX:Wheat
Start	3	End	487
GI	none	Score	89
Exons	3..89, 17..103, 89..154, 90..200, 91..153, 225..329, 233..361, 233..361, 237..365, 241..372, 241..372, 431..487, 439..480		

Seq. No.	54927	Seq. ID	OJ000322_13.0420.C23
Gene No.	115198	Strand	-
Start	321	End	858

Name	OJ000322_13.0420.C23.o1.tm	Method	TBLASTX:Maize
Start	33	End	469
GI	none	Score	137
Exons	33..185, 34..153, 35..160, 222..314, 223..357, 233..361, 239..361, 247..372, 431..469		

Seq. No.	54927	Seq. ID	OJ000322_13.0420.C23
Gene No.	115198	Strand	-
Start	321	End	858
Name	OJ000322_13.0420.C23.o1.gs	Method	GENSCAN
Start	321	End	858
GI	none	Score	.74
Exons	321..458, 697..858		

Seq. No.	54928	Seq. ID	OJ000322_13.0420.C25
Gene No.	115199	Strand	+
Start	1	End	894
Name	OJ000322_13.0420.C25.o1.gp	Method	AAT/GAP
Start	1	End	894
GI	10271_1.R1084	Score	410
Exons	1..119, 484..564, 661..775, 873..894		
GI Descrip.	'3309086/gb|AAC26010.1| 4.0e-66 (AF076253) calcineurin B-like protein 3 [Arabidopsis thaliana] >gi_4938495_emb_CAB43853.1_ (AL078465) calcineurin B-like protein 3 [Arabidopsis thaliana]'		

Seq. No.	54928	Seq. ID	OJ000322_13.0420.C25
Gene No.	115199	Strand	+
Start	1	End	894
Name	OJ000322_13.0420.C25.o1.np	Method	AAT/NAP
Start	1	End	828
GI	7487041	Score	300
Exons	1..119, 484..564, 661..828		
GI Descrip.	hypothetical protein T15N24.20 - Arabidopsis thaliana gi|3309086|gb|AAC26010.1| (AF076253) calcineurin B-like protein 3 [Arabidopsis thaliana] gi|4938495|emb|CAB43853.1| (AL078465) calcineurin B-like protein 3 [Arabidopsis thaliana] gi|7269509|emb|CAB79512.1| (AL161565) calcineurin B-like protein 3 [Arabidopsis thaliana]		

Seq. No.	54928	Seq. ID	OJ000322_13.0420.C25
Gene No.	115199	Strand	+
Start	1	End	894
Name	OJ000322_13.0420.C25.o1.ts	Method	TBLASTX:Soybean
Start	32	End	774
GI	none	Score	81
Exons	32..121, 69..122, 481..564, 483..563, 634..696, 653..751, 655..771, 660..773, 661..774		

Seq. No.	54928	Seq. ID	OJ000322_13.0420.C25
Gene No.	115199	Strand	+
Start	1	End	894
Name	OJ000322_13.0420.C25.o1.tm	Method	TBLASTX:Maize
Start	35	End	774
GI	none	Score	91
Exons	35..121, 69..122, 475..564, 481..564, 483..569, 659..769, 660..770, 660..770, 661..774		

Seq. No.	54928	Seq. ID	OJ000322_13.0420.C25
Gene No.	115199	Strand	+
Start	1	End	894
Name	OJ000322_13.0420.C25.o1.tc	Method	TBLASTX:Cress
Start	69	End	774
GI	none	Score	81
Exons	69..122, 83..121, 478..564, 481..564, 483..569, 634..771, 656..769, 659..772, 660..770, 660..773, 661..774		

Seq. No.	54929	Seq. ID	OJ000322_13.0420.C26
Gene No.	115200	Strand	-
Start	417	End	698
Name	OJ000322_13.0420.C26.o1.gp	Method	AAT/GAP
Start	417	End	698
GI	569680	Score	556
Exons	417..698		

Seq. No.	54930	Seq. ID	OJ000322_13.0420.C28
Gene No.	115201	Strand	+
Start	58	End	164
Name	OJ000322_13.0420.C28.o1.gs	Method	GENSCAN
Start	58	End	164
GI	none	Score	.83
Exons	58..164		

Seq. No.	54930	Seq. ID	OJ000322_13.0420.C28
Gene No.	115202	Strand	-
Start	1	End	710
Name	OJ000322_13.0420.C28.o1.np	Method	AAT/NAP
Start	1	End	710
GI	7489803	Score	336
Exons	1..710		
GI Descrip.	pol protein homolog - maize retrotransposon Opie-2 gi|3645899|gb|AAC49502.1| (U68408) 5' end not determined experimentally [Zea mays]		

Seq. No.	54930	Seq. ID	OJ000322_13.0420.C28
Gene No.	115203	Strand	-
Start	640	End	707
Name	OJ000322_13.0420.C28.o1.tm	Method	TBLASTX:Maize
Start	2	End	287
GI	none	Score	98
Exons	2..283, 6..287		

Seq. No.	54930	Seq. ID	OJ000322_13.0420.C28
Gene No.	115203	Strand	-
Start	640	End	707
Name	OJ000322_13.0420.C28.o2.gs	Method	GENSCAN
Start	640	End	707
GI	none	Score	.88
Exons	640..707		

Seq. No.	54931	Seq. ID	OJ000322_13.0420.C29
Gene No.	115204	Strand	-
Start	399	End	2067
Name	OJ000322_13.0420.C29.o1.np	Method	AAT/NAP
Start	399	End	2067

GI	6539588	Score	143
Exons	399..449, 1763..2067		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	54931	Seq. ID	OJ000322_13.0420.C29
Gene No.	115204	Strand	-
Start	399	End	2067
Name	OJ000322_13.0420.C29.o1.gs	Method	GENSCAN
Start	513	End	2040
GI	none	Score	.65
Exons	513..825, 832..1333, 1348..1637, 1806..2040		

Seq. No.	54932	Seq. ID	OJ000322_13.0420.C31
Gene No.	115205	Strand	-
Start	1	End	722
Name	OJ000322_13.0420.C31.o1.np	Method	AAT/NAP
Start	1	End	722
GI	6630685	Score	756
Exons	1..722		
GI Descrip.	(AP000969) Similar to copia-type pol polyprotein. (AF105716) [Oryza sativa]		

Seq. No.	54932	Seq. ID	OJ000322_13.0420.C31
Gene No.	115205	Strand	-
Start	1	End	722
Name	OJ000322_13.0420.C31.o1.tm	Method	TBLASTX:Maize
Start	1	End	503
GI	none	Score	291
Exons	1..495, 3..503		

Seq. No.	54932	Seq. ID	OJ000322_13.0420.C31
Gene No.	115205	Strand	-
Start	1	End	722
Name	OJ000322_13.0420.C31.o1.ts	Method	TBLASTX:Soybean
Start	3	End	485
GI	none	Score	58
Exons	3..77, 84..296, 96..485, 139..297, 351..434		

Seq. No.	54932	Seq. ID	OJ000322_13.0420.C31
Gene No.	115205	Strand	-
Start	1	End	722
Name	OJ000322_13.0420.C31.o1.tw	Method	TBLASTX:Wheat
Start	249	End	638
GI	none	Score	76
Exons	249..506, 531..638		

Seq. No.	54932	Seq. ID	OJ000322_13.0420.C31
Gene No.	115205	Strand	-
Start	1	End	722
Name	OJ000322_13.0420.C31.o1.gs	Method	GENSCAN
Start	361	End	584
GI	none	Score	.56
Exons	361..584		

Seq. No.	54933	Seq. ID	OJ000322_13.0420.C32
Gene No.	115206	Strand	-
Start	258	End	781

Name	OJ000322_13.0420.C32.o1.np	Method	AAT/NAP
Start	258	End	781
GI	7444442	Score	104
Exons	258..781		
GI Descrip.	gag/pol polyprotein - maize retrotransposon Hopscotch gi|531389|gb|AAA57005.1| (U12626) copia-like retrotransposon Hopscotch polyprotein [Zea mays]		

Seq. No.	54934	Seq. ID	OJ000322_13.0420.C34
Gene No.	115207	Strand	-
Start	117	End	404
Name	OJ000322_13.0420.C34.o1.gs	Method	GENSCAN
Start	117	End	404
GI	none	Score	.96
Exons	117..404		

Seq. No.	54935	Seq. ID	OJ000322_13.0420.C35
Gene No.	115208	Strand	+
Start	801	End	1292
Name	OJ000322_13.0420.C35.o1.gs	Method	GENSCAN
Start	801	End	1292
GI	none	Score	.83
Exons	801..892, 897..1064, 1103..1292		

Seq. No.	54935	Seq. ID	OJ000322_13.0420.C35
Gene No.	115209	Strand	-
Start	1	End	1382
Name	OJ000322_13.0420.C35.o1.np	Method	AAT/NAP
Start	1	End	1382
GI	7487041	Score	144
Exons	1..18, 413..521, 1342..1382		
GI Descrip.	hypothetical protein T15N24.20 - Arabidopsis thaliana gi|3309086|gb|AAC26010.1| (AF076253) calcineurin B-like protein 3 [Arabidopsis thaliana] gi|4938495|emb|CAB43853.1| (AL078465) calcineurin B-like protein 3 [Arabidopsis thaliana] gi|7269509|emb|CAB79512.1| (AL161565) calcineurin B-like protein 3 [Arabidopsis thaliana]		

Seq. No.	54935	Seq. ID	OJ000322_13.0420.C35
Gene No.	115209	Strand	-
Start	1	End	1382
Name	OJ000322_13.0420.C35.o1.tc	Method	TBLASTX:Cress
Start	412	End	522
GI	none	Score	157
Exons	412..522, 414..521		

Seq. No.	54935	Seq. ID	OJ000322_13.0420.C35
Gene No.	115209	Strand	-
Start	1	End	1382
Name	OJ000322_13.0420.C35.o1.tm	Method	TBLASTX:Maize
Start	414	End	523
GI	none	Score	103
Exons	414..521, 414..521, 415..522, 416..523, 433..522		

Seq. No.	54935	Seq. ID	OJ000322_13.0420.C35
Gene No.	115209	Strand	-
Start	1	End	1382

Name	OJ000322_13.0420.C35.o1.ts	Method	TBLASTX:Soybean
Start	414	End	522
GI	none	Score	153
Exons	414..521, 415..522, 436..522		

Seq. No.	54936	Seq. ID	OJ000322_13.0420.C36
Gene No.	115210	Strand	+
Start	742	End	1508
Name	OJ000322_13.0420.C36.o1.gs	Method	GENSCAN
Start	742	End	1508
GI	none	Score	.64
Exons	742..1508		

Seq. No.	54936	Seq. ID	OJ000322_13.0420.C36
Gene No.	115211	Strand	+
Start	5020	End	7974
Name	OJ000322_13.0420.C36.o2.np	Method	AAT/NAP
Start	4629	End	7974
GI	7523698	Score	279
Exons	4629..4990, 5425..5522, 5796..5928, 7814..7898, 7955..7974		
GI Descrip.	(AC011001) Similar to bZIP transcription factors [Arabidopsis thaliana]		

Seq. No.	54936	Seq. ID	OJ000322_13.0420.C36
Gene No.	115211	Strand	+
Start	5020	End	7974
Name	OJ000322_13.0420.C36.o3.gp	Method	AAT/GAP
Start	4871	End	5318
GI	none	Score	818
Exons	4871..4966, 4987..5318		

Seq. No.	54936	Seq. ID	OJ000322_13.0420.C36
Gene No.	115211	Strand	+
Start	5020	End	7974
Name	OJ000322_13.0420.C36.o2.gs	Method	GENSCAN
Start	5020	End	6226
GI	none	Score	.99
Exons	5020..5522, 5796..5928, 6188..6226		

Seq. No.	54936	Seq. ID	OJ000322_13.0420.C36
Gene No.	115211	Strand	+
Start	5020	End	7974
Name	OJ000322_13.0420.C36.o4.gp	Method	AAT/GAP
Start	5788	End	7898
GI	50880_1.R1084	Score	377
Exons	5788..5928, 7814..7898		
GI Descrip.	'2921823 2.0e-22 (AF046934) shoot-forming PKSF1 [Paulownia kawakamii]'		

Seq. No.	54936	Seq. ID	OJ000322_13.0420.C36
Gene No.	115212	Strand	-
Start	276	End	862
Name	OJ000322_13.0420.C36.o1.np	Method	AAT/NAP
Start	276	End	838
GI	7487041	Score	209
Exons	276..373, 491..573, 715..838		
GI Descrip.	hypothetical protein T15N24.20 - Arabidopsis thaliana		

gi|3309086|gb|AAC26010.1| (AF076253) calcineurin B-like protein 3 [Arabidopsis thaliana] gi|4938495|emb|CAB43853.1| (AL078465) calcineurin B-like protein 3 [Arabidopsis thaliana] gi|7269509|emb|CAB79512.1| (AL161565) calcineurin B-like protein 3 [Arabidopsis thaliana]

Seq. No.	54936	Seq. ID	OJ000322_13.0420.C36
Gene No.	115212	Strand	-
Start	276	End	862
Name	OJ000322_13.0420.C36.o1.gp	Method	AAT/GAP
Start	285	End	862
GI	uC-osflcyp106h04b1	Score	508
Exons	285..373, 491..573, 715..862		
GI Descrip.	'3309086/gb|AAC26010.1| 2.0e-28 (AF076253) calcineurin B-like protein 3 [Arabidopsis thaliana] >gi_4938495_emb_CAB43853.1_ (AL078465) calcineurin B-like protein 3 [Arabidopsis thaliana]'		

Seq. No.	54936	Seq. ID	OJ000322_13.0420.C36
Gene No.	115213	Strand	-
Start	878	End	1160
Name	OJ000322_13.0420.C36.o2.tm	Method	TBLASTX:Maize
Start	306	End	582
GI	none	Score	110
Exons	306..380, 308..376, 310..396, 483..578, 488..577, 523..582		

Seq. No.	54936	Seq. ID	OJ000322_13.0420.C36
Gene No.	115213	Strand	-
Start	878	End	1160
Name	OJ000322_13.0420.C36.o2.gp	Method	AAT/GAP
Start	878	End	1160
GI	4968584	Score	534
Exons	878..1160		

Seq. No.	54936	Seq. ID	OJ000322_13.0420.C36
Gene No.	115214	Strand	
Start	5284	End	7916
Name	OJ000322_13.0420.C36.o1.tm	Method	TBLASTX:Maize
Start	5284	End	7916
GI	none	Score	55
Exons	5284..5325, 5284..5319, 5286..5321, 5372..5443, 5374..5523, 5374..5547, 5793..5924, 5793..5873, 5899..5928, 7813..7914, 7814..7915, 7815..7916		

Seq. No.	54937	Seq. ID	OJ000322_13.0420.C37
Gene No.	115215	Strand	-
Start	857	End	1512
Name	OJ000322_13.0420.C37.o1.gs	Method	GENSCAN
Start	857	End	1455
GI	none	Score	.96
Exons	857..1455		

Seq. No.	54937	Seq. ID	OJ000322_13.0420.C37
Gene No.	115215	Strand	-
Start	857	End	1512
Name	OJ000322_13.0420.C37.o1.np	Method	AAT/NAP
Start	968	End	1512
GI	5679312	Score	242

Exons	968..1512		
GI Descrip.	(AF164020) receptor kinase [Oryza sativa]		
Seq. No.	54937	Seq. ID	OJ000322_13.0420.C37
Gene No.	115215	Strand	-
Start	857	End	1512
Name	OJ000322_13.0420.C37.o1.tm	Method	TBLASTX:Maize
Start	980	End	1511
GI	none	Score	65
Exons	980..1123, 1008..1124, 1127..1405, 1256..1405, 1412..1510, 1413..1511		
Seq. No.	54937	Seq. ID	OJ000322_13.0420.C37
Gene No.	115215	Strand	-
Start	857	End	1512
Name	OJ000322_13.0420.C37.o1.tc	Method	TBLASTX:Cress
Start	1007	End	1510
GI	none	Score	77
Exons	1007..1153, 1008..1172, 1250..1387, 1391..1510		
Seq. No.	54937	Seq. ID	OJ000322_13.0420.C37
Gene No.	115215	Strand	-
Start	857	End	1512
Name	OJ000322_13.0420.C37.o1.ts	Method	TBLASTX:Soybean
Start	1037	End	1501
GI	none	Score	81
Exons	1037..1147, 1038..1172, 1247..1360, 1247..1501, 1296..1370		
Seq. No.	54938	Seq. ID	OJ000322_13.0420.C38
Gene No.	115216	Strand	-
Start	1	End	1112
Name	OJ000322_13.0420.C38.o1.np	Method	AAT/NAP
Start	1	End	1112
GI	6630696	Score	1645
Exons	1..1112		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		
Seq. No.	54938	Seq. ID	OJ000322_13.0420.C38
Gene No.	115216	Strand	-
Start	1	End	1112
Name	OJ000322_13.0420.C38.o1.tw	Method	TBLASTX:Wheat
Start	156	End	892
GI	none	Score	39
Exons	156..230, 171..437, 175..438, 258..485, 446..892, 448..882, 450..884		
Seq. No.	54938	Seq. ID	OJ000322_13.0420.C38
Gene No.	115216	Strand	-
Start	1	End	1112
Name	OJ000322_13.0420.C38.o1.ts	Method	TBLASTX:Soybean
Start	542	End	940
GI	none	Score	105
Exons	542..715, 719..940, 723..938		
Seq. No.	54938	Seq. ID	OJ000322_13.0420.C38

Gene No.	115216	Strand	-
Start	1	End	1112
Name	OJ000322_13.0420.C38.o1.tm	Method	TBLASTX:Maize
Start	728	End	1036
GI	none	Score	87
Exons	728..1036, 744..914		

Seq. No.	54938	Seq. ID	OJ000322_13.0420.C38
Gene No.	115216	Strand	-
Start	1	End	1112
Name	OJ000322_13.0420.C38.o2.tw	Method	TBLASTX:Wheat
Start	893	End	1048
GI	none	Score	149
Exons	893..1048, 894..1046		

Seq. No.	54939	Seq. ID	OJ000322_13.0420.C39
Gene No.	115217	Strand	+
Start	302	End	412
Name	OJ000322_13.0420.C39.o1.gs	Method	GENSCAN
Start	302	End	412
GI	none	Score	.56
Exons	302..412		

Seq. No.	54939	Seq. ID	OJ000322_13.0420.C39
Gene No.	115218	Strand	+
Start	4288	End	7939
Name	OJ000322_13.0420.C39.o3.gs	Method	GENSCAN
Start	4288	End	7939
GI	none	Score	.77
Exons	4288..4384, 4485..5015, 5537..5724, 6101..6390, 6525..6636, 6905..7939		

Seq. No.	54939	Seq. ID	OJ000322_13.0420.C39
Gene No.	115218	Strand	+
Start	4288	End	7939
Name	OJ000322_13.0420.C39.o2.np	Method	AAT/NAP
Start	4657	End	7930
GI	7269936	Score	1850
Exons	4657..5002, 5512..5731, 6090..6411, 6525..6636, 6905..7704, 7747..7930		
GI Descrip.	(AL161576) cyclic nucleotide and calmodulin-regulated ion channel-like protein [Arabidopsis thaliana]		

Seq. No.	54939	Seq. ID	OJ000322_13.0420.C39
Gene No.	115219	Strand	+
Start	10135	End	10884
Name	OJ000322_13.0420.C39.o3.np	Method	AAT/NAP
Start	10135	End	10884
GI	6899930	Score	139
Exons	10135..10435, 10836..10884		
GI Descrip.	(AL138651) putative protein [Arabidopsis thaliana]		

Seq. No.	54939	Seq. ID	OJ000322_13.0420.C39
Gene No.	115220	Strand	-
Start	1	End	3492
Name	OJ000322_13.0420.C39.o1.np	Method	AAT/NAP
Start	1	End	1976

GI	6630696	Score	2435
Exons	1..31, 491..1976		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	54939	Seq. ID	OJ000322_13.0420.C39
Gene No.	115220	Strand	-
Start	1	End	3492
Name	OJ000322_13.0420.C39.o2.tm	Method	TBLASTX:Maize
Start	733	End	1123
GI	none	Score	55
Exons	733..828, 735..797, 829..1119, 834..1118, 1055..1123		

Seq. No.	54939	Seq. ID	OJ000322_13.0420.C39
Gene No.	115220	Strand	-
Start	1	End	3492
Name	OJ000322_13.0420.C39.o1.gp	Method	AAT/GAP
Start	1042	End	1873
GI	101595_1.R1084	Score	1245
Exons	1042..1118, 1234..1873		
GI Descrip.	'3047066 3.0e-15 (AF058825) contains similarity to retrovirus-related POL polyproteins [Arabidopsis thaliana]'		

Seq. No.	54939	Seq. ID	OJ000322_13.0420.C39
Gene No.	115220	Strand	-
Start	1	End	3492
Name	OJ000322_13.0420.C39.o2.gs	Method	GENSCAN
Start	1473	End	3492
GI	none	Score	.52
Exons	1473..1819, 2392..2507, 2512..2848, 3447..3492		

Seq. No.	54939	Seq. ID	OJ000322_13.0420.C39
Gene No.	115220	Strand	-
Start	1	End	3492
Name	OJ000322_13.0420.C39.o4.tm	Method	TBLASTX:Maize
Start	1626	End	1934
GI	none	Score	130
Exons	1626..1934, 1629..1820, 1705..1887		

Seq. No.	54939	Seq. ID	OJ000322_13.0420.C39
Gene No.	115220	Strand	-
Start	1	End	3492
Name	OJ000322_13.0420.C39.o2.tw	Method	TBLASTX:Wheat
Start	1685	End	2082
GI	none	Score	153
Exons	1685..1867, 1686..1970, 1705..1896, 1947..2081, 1984..2082		

Seq. No.	54939	Seq. ID	OJ000322_13.0420.C39
Gene No.	115221	Strand	
Start	4649	End	7930
Name	OJ000322_13.0420.C39.o5.tm	Method	TBLASTX:Maize
Start	4649	End	4888
GI	none	Score	137
Exons	4649..4753, 4772..4888		

Seq. No.	54939	Seq. ID	OJ000322_13.0420.C39

Gene No.	115221	Strand	
Start	4649	End	7930
Name	OJ000322_13.0420.C39.o1.tc	Method	TBLASTX:Cress
Start	4652	End	7639
GI	none	Score	96
Exons	4652..4753, 4768..4998, 4769..5029, 5509..5727, 6101..6178, 6314..6394, 6347..6418, 6376..6411, 6496..6642, 6522..6641, 6820..7056, 6899..7639, 7141..7587		

Seq. No.	54939	Seq. ID	OJ000322_13.0420.C39
Gene No.	115221	Strand	
Start	4649	End	7930
Name	OJ000322_13.0420.C39.o2.ts	Method	TBLASTX:Soybean
Start	4652	End	4914
GI	none	Score	269
Exons	4652..4909, 4678..4914		

Seq. No.	54939	Seq. ID	OJ000322_13.0420.C39
Gene No.	115221	Strand	
Start	4649	End	7930
Name	OJ000322_13.0420.C39.o1.tm	Method	TBLASTX:Maize
Start	4892	End	7639
GI	none	Score	112
Exons	4892..5008, 5508..5738, 5509..5727, 6101..6175, 6305..6409, 6898..6975, 6899..7639, 7033..7056, 7141..7593		

Seq. No.	54939	Seq. ID	OJ000322_13.0420.C39
Gene No.	115221	Strand	
Start	4649	End	7930
Name	OJ000322_13.0420.C39.o3.ts	Method	TBLASTX:Soybean
Start	5509	End	6289
GI	none	Score	231
Exons	5509..5730, 5517..5723, 6103..6174, 6104..6175, 6197..6289		

Seq. No.	54939	Seq. ID	OJ000322_13.0420.C39
Gene No.	115221	Strand	
Start	4649	End	7930
Name	OJ000322_13.0420.C39.o1.ts	Method	TBLASTX:Soybean
Start	6901	End	7930
GI	none	Score	1043
Exons	6901..7056, 6902..7645, 7141..7605, 7784..7828, 7880..7930		

Seq. No.	54939	Seq. ID	OJ000322_13.0420.C39
Gene No.	115221	Strand	
Start	4649	End	7930
Name	OJ000322_13.0420.C39.o1.tw	Method	TBLASTX:Wheat
Start	6992	End	7327
GI	none	Score	370
Exons	6992..7327, 7026..7061, 7046..7273, 7141..7326		

Seq. No.	54939	Seq. ID	OJ000322_13.0420.C39
Gene No.	115222	Strand	
Start	10212	End	10437
Name	OJ000322_13.0420.C39.o3.tm	Method	TBLASTX:Maize
Start	10212	End	10437
GI	none	Score	308
Exons	10212..10436, 10213..10437		

Seq. No.	54940	Seq. ID	OJ000322_13.0420.C40
Gene No.	115223	Strand	+
Start	1	End	2642
Name	OJ000322_13.0420.C40.o1.np	Method	AAT/NAP
Start	1	End	2642
GI	6899930	Score	127
Exons	1..318, 2607..2642		
GI Descrip.	(AL138651) putative protein [Arabidopsis thaliana]		

Seq. No.	54940	Seq. ID	OJ000322_13.0420.C40
Gene No.	115223	Strand	+
Start	1	End	2642
Name	OJ000322_13.0420.C40.o1.tc	Method	TBLASTX:Cress
Start	65	End	409
GI	none	Score	393
Exons	65..394, 75..407, 78..407, 260..409		

Seq. No.	54940	Seq. ID	OJ000322_13.0420.C40
Gene No.	115223	Strand	+
Start	1	End	2642
Name	OJ000322_13.0420.C40.o1.gs	Method	GENSCAN
Start	79	End	2394
GI	none	Score	.54
Exons	79..1702, 2266..2394		

Seq. No.	54940	Seq. ID	OJ000322_13.0420.C40
Gene No.	115223	Strand	+
Start	1	End	2642
Name	OJ000322_13.0420.C40.o1.tm	Method	TBLASTX:Maize
Start	1367	End	1712
GI	none	Score	305
Exons	1367..1708, 1368..1703, 1372..1707, 1374..1712		

Seq. No.	54941	Seq. ID	OJ000322_13.0420.C42
Gene No.	115224	Strand	+
Start	359	End	442
Name	OJ000322_13.0420.C42.o1.gp	Method	AAT/GAP
Start	359	End	442
GI	LIB3477-003-P1-K1-E9	Score	122
Exons	359..442		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	54941	Seq. ID	OJ000322_13.0420.C42
Gene No.	115225	Strand	-
Start	1	End	829
Name	OJ000322_13.0420.C42.o1.np	Method	AAT/NAP
Start	1	End	829
GI	6735330	Score	291
Exons	1..34, 121..347, 521..642, 779..829		
GI Descrip.	(AL137081) putative protein [Arabidopsis thaliana]		

Seq. No.	54941	Seq. ID	OJ000322_13.0420.C42
Gene No.	115225	Strand	-
Start	1	End	829

Name	OJ000322_13.0420.C42.o1.tm	Method	TBLASTX:Maize
Start	1	End	645
GI	none	Score	47
Exons	1..36, 2..28, 120..314, 133..315, 271..348, 507..635, 508..645, 515..643		

Seq. No.	54941	Seq. ID	OJ000322_13.0420.C42
Gene No.	115225	Strand	-
Start	1	End	829
Name	OJ000322_13.0420.C42.o1.gs	Method	GENSCAN
Start	121	End	347
GI	none	Score	.61
Exons	121..347		

Seq. No.	54942	Seq. ID	OJ000322_13.0420.C43
Gene No.	115226	Strand	+
Start	2892	End	4989
Name	OJ000322_13.0420.C43.o3.np	Method	AAT/NAP
Start	2892	End	4989
GI	7242910	Score	131
Exons	2892..3022, 4691..4838, 4907..4989		
GI Descrip.	(AP001383) hypothetical protein [Oryza sativa]		

Seq. No.	54942	Seq. ID	OJ000322_13.0420.C43
Gene No.	115227	Strand	-
Start	1251	End	8889
Name	OJ000322_13.0420.C43.o1.gs	Method	GENSCAN
Start	1251	End	8889
GI	none	Score	.52
Exons	1251..1448, 1675..3359, 3743..3824, 4190..4328, 4718..4768, 5036..5273, 7428..7985, 7991..8889		

Seq. No.	54942	Seq. ID	OJ000322_13.0420.C43
Gene No.	115227	Strand	-
Start	1251	End	8889
Name	OJ000322_13.0420.C43.o2.np	Method	AAT/NAP
Start	3742	End	5643
GI	7242910	Score	155
Exons	3742..3827, 3888..4059, 5505..5643		
GI Descrip.	(AP001383) hypothetical protein [Oryza sativa]		

Seq. No.	54943	Seq. ID	OJ000322_13.0420.C44
Gene No.	115228	Strand	+
Start	69	End	732
Name	OJ000322_13.0420.C44.o1.gs	Method	GENSCAN
Start	69	End	732
GI	none	Score	.89
Exons	69..89, 546..732		

Seq. No.	54944	Seq. ID	OJ000322_13.0420.C46
Gene No.	115229	Strand	-
Start	19	End	710
Name	OJ000322_13.0420.C46.o1.gs	Method	GENSCAN
Start	19	End	710
GI	none	Score	.44
Exons	19..124, 156..710		

Seq. No.	54945	Seq. ID	OJ000322_13.0420.C51
Gene No.	115230	Strand	+
Start	1	End	809
Name	OJ000322_13.0420.C51.o1.np	Method	AAT/NAP
Start	1	End	809
GI	7332144	Score	57
Exons	1..131, 774..809		
GI Descrip.	(AC024839) contains similarity to Pfam family PF00314 (Thaumatin family), score=141.0, E=9.4e-59, N=1 [Caenorhabditis elegans]		

Seq. No.	54946	Seq. ID	OJ000322_13.0420.C52
Gene No.	115231	Strand	-
Start	378	End	704
Name	OJ000322_13.0420.C52.o1.gs	Method	GENSCAN
Start	378	End	704
GI	none	Score	.54
Exons	378..704		

Seq. No.	54947	Seq. ID	OJ000322_13.0420.C55
Gene No.	115232	Strand	+
Start	631	End	681
Name	OJ000322_13.0420.C55.o1.gs	Method	GENSCAN
Start	631	End	681
GI	none	Score	.58
Exons	631..681		

Seq. No.	54948	Seq. ID	OJ000322_13.0420.C60
Gene No.	115233	Strand	-
Start	1	End	764
Name	OJ000322_13.0420.C60.o1.np	Method	AAT/NAP
Start	1	End	764
GI	7489454	Score	77
Exons	1..28, 588..764		
GI Descrip.	bacterial blight-resistance protein Xa1 - rice gi|2943742|dbj|BAA25068.1| (AB002266) XA1 [Oryza sativa]		

Seq. No.	54948	Seq. ID	OJ000322_13.0420.C60
Gene No.	115233	Strand	-
Start	1	End	764
Name	OJ000322_13.0420.C60.o1.gs	Method	GENSCAN
Start	36	End	704
GI	none	Score	.66
Exons	36..704		

Seq. No.	54949	Seq. ID	OJ000322_13.0420.C63
Gene No.	115234	Strand	-
Start	1	End	647
Name	OJ000322_13.0420.C63.o1.gp	Method	AAT/GAP
Start	1	End	529
GI	10707_1.R1084	Score	217
Exons	1..34, 400..529		
GI Descrip.	'1001355/dbj|BAA10842| 5.0e-53 (D64006) auxin-induced protein [Synechocystis sp.]'		

Seq. No.	54949	Seq. ID	OJ000322_13.0420.C63
Gene No.	115234	Strand	-
Start	1	End	647

Name	OJ000322_13.0420.C63.o1.tm	Method	TBLASTX:Maize
Start	384	End	647
GI	none	Score	94
Exons	384..515, 385..471, 596..637, 597..647		

Seq. No.	54949	Seq. ID	OJ000322_13.0420.C63
Gene No.	115234	Strand	-
Start	1	End	647
Name	OJ000322_13.0420.C63.o1.gs	Method	GENSCAN
Start	404	End	647
GI	none	Score	.98
Exons	404..647		

Seq. No.	54949	Seq. ID	OJ000322_13.0420.C63
Gene No.	115234	Strand	-
Start	1	End	647
Name	OJ000322_13.0420.C63.o1.np	Method	AAT/NAP
Start	404	End	635
GI	6692675	Score	140
Exons	404..635		
GI Descrip.	(AC007592) F12K11.2 [Arabidopsis thaliana]		

Seq. No.	54950	Seq. ID	OJ000322_13.0420.C65
Gene No.	115235	Strand	-
Start	1	End	768
Name	OJ000322_13.0420.C65.o1.np	Method	AAT/NAP
Start	1	End	768
GI	4531445	Score	114
Exons	1..34, 402..470, 591..768		
GI Descrip.	(AC006224) unknown protein [Arabidopsis thaliana]		

Seq. No.	54950	Seq. ID	OJ000322_13.0420.C65
Gene No.	115235	Strand	-
Start	1	End	768
Name	OJ000322_13.0420.C65.o1.gs	Method	GENSCAN
Start	13	End	371
GI	none	Score	.59
Exons	13..371		

Seq. No.	54950	Seq. ID	OJ000322_13.0420.C65
Gene No.	115235	Strand	-
Start	1	End	768
Name	OJ000322_13.0420.C65.o1.tm	Method	TBLASTX:Maize
Start	97	End	611
GI	none	Score	69
Exons	97..153, 97..153, 155..190, 189..314, 199..303, 375..473, 402..476, 591..611		

Seq. No.	54950	Seq. ID	OJ000322_13.0420.C65
Gene No.	115235	Strand	-
Start	1	End	768
Name	OJ000322_13.0420.C65.o1.ts	Method	TBLASTX:Soybean
Start	216	End	659
GI	none	Score	85
Exons	216..314, 220..303, 402..491, 409..468, 591..647, 591..659		

Seq. No.	54950	Seq. ID	OJ000322_13.0420.C65

Gene No.	115235	Strand	-
Start	1	End	768
Name	OJ000322_13.0420.C65.o1.tc	Method	TBLASTX:Cress
Start	414	End	664
GI	none	Score	70
Exons	414..497, 418..471, 582..659,	590..664,	591..662

Seq. No.	54951	Seq. ID	OJ000322_13.0420.C70
Gene No.	115236	Strand	+
Start	70	End	643
Name	OJ000322_13.0420.C70.o1.gs	Method	GENSCAN
Start	70	End	643
GI	none	Score	.62
Exons	70..126, 263..396, 580..643		

Seq. No.	54952	Seq. ID	OJ000322_13.0420.C71
Gene No.	115237	Strand	-
Start	238	End	377
Name	OJ000322_13.0420.C71.o1.gs	Method	GENSCAN
Start	238	End	377
GI	none	Score	.99
Exons	238..377		

Seq. No.	54953	Seq. ID	OJ000322_13.0420.C72
Gene No.	115238	Strand	-
Start	1	End	599
Name	OJ000322_13.0420.C72.o1.gp	Method	AAT/GAP
Start	1	End	595
GI	10707_1.R1084	Score	260
Exons	1..58, 339..401, 513..595		
GI Descrip.	'1001355/dbj|BAA10842| 5.0e-53 (D64006) auxin-induced protein [Synechocystis sp.]'		

Seq. No.	54953	Seq. ID	OJ000322_13.0420.C72
Gene No.	115238	Strand	-
Start	1	End	599
Name	OJ000322_13.0420.C72.o1.np	Method	AAT/NAP
Start	1	End	595
GI	6692675	Score	154
Exons	1..31, 280..401, 513..595		
GI Descrip.	(AC007592) F12K11.2 [Arabidopsis thaliana]		

Seq. No.	54953	Seq. ID	OJ000322_13.0420.C72
Gene No.	115238	Strand	-
Start	1	End	599
Name	OJ000322_13.0420.C72.o1.gs	Method	GENSCAN
Start	282	End	595
GI	none	Score	.58
Exons	282..595		

Seq. No.	54953	Seq. ID	OJ000322_13.0420.C72
Gene No.	115238	Strand	-
Start	1	End	599
Name	OJ000322_13.0420.C72.o1.tm	Method	TBLASTX:Maize
Start	336	End	599
GI	none	Score	66
Exons	336..413, 336..413, 486..599,	511..597	

Seq. No.	54954	Seq. ID	OJ000322_13.0420.C73
Gene No.	115239	Strand	+
Start	1	End	764
Name	OJ000322_13.0420.C73.o1.np	Method	AAT/NAP
Start	1	End	764
GI	5903066	Score	177
Exons	1..764		
GI Descrip.	(AC008016) F6D8.26 [Arabidopsis thaliana]		

Seq. No.	54954	Seq. ID	OJ000322_13.0420.C73
Gene No.	115239	Strand	+
Start	1	End	764
Name	OJ000322_13.0420.C73.o1.gs	Method	GENSCAN
Start	59	End	511
GI	none	Score	.77
Exons	59..511		

Seq. No.	54954	Seq. ID	OJ000322_13.0420.C73
Gene No.	115239	Strand	+
Start	1	End	764
Name	OJ000322_13.0420.C73.o1.ts	Method	TBLASTX:Soybean
Start	547	End	756
GI	none	Score	176
Exons	547..744, 548..691, 565..756		

Seq. No.	54955	Seq. ID	OJ000322_13.0420.C74
Gene No.	115240	Strand	-
Start	197	End	710
Name	OJ000322_13.0420.C74.o1.gs	Method	GENSCAN
Start	197	End	710
GI	none	Score	.73
Exons	197..440, 547..710		

Seq. No.	54956	Seq. ID	OJ000322_13.0420.C75
Gene No.	115241	Strand	+
Start	1	End	761
Name	OJ000322_13.0420.C75.o1.np	Method	AAT/NAP
Start	1	End	761
GI	2088651	Score	205
Exons	1..45, 299..761		
GI Descrip.	(AF002109) putative anthocyanin 5-aromatic acyltransferase [Arabidopsis thaliana]		

Seq. No.	54956	Seq. ID	OJ000322_13.0420.C75
Gene No.	115241	Strand	+
Start	1	End	761
Name	OJ000322_13.0420.C75.o1.ts	Method	TBLASTX:Soybean
Start	71	End	519
GI	none	Score	44
Exons	71..127, 187..276, 313..519		

Seq. No.	54957	Seq. ID	OJ000322_13.0420.C76
Gene No.	115242	Strand	+
Start	1	End	782
Name	OJ000322_13.0420.C76.o1.np	Method	AAT/NAP
Start	1	End	782

GI	7228442	Score	759
Exons	1..782		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog. (AC003981) [Oryza sativa]		

Seq. No.	54957	Seq. ID	OJ000322_13.0420.C76
Gene No.	115242	Strand	+
Start	1	End	782
Name	OJ000322_13.0420.C76.o1.tw	Method	TBLASTX:Wheat
Start	30	End	280
GI	none	Score	67
Exons	30..83, 107..208, 108..203, 131..214, 155..280		

Seq. No.	54957	Seq. ID	OJ000322_13.0420.C76
Gene No.	115242	Strand	+
Start	1	End	782
Name	OJ000322_13.0420.C76.o1.gs	Method	GENSCAN
Start	174	End	708
GI	none	Score	.79
Exons	174..458, 602..708		

Seq. No.	54958	Seq. ID	OJ000322_12.0424.C2
Gene No.	115243	Strand	+
Start	1	End	364
Name	OJ000322_12.0424.C2.o1.gp	Method	AAT/GAP
Start	1	End	364
GI	uC-osflcyp023g09b1	Score	677
Exons	1..364		
GI Descrip.	'4455280/emb|CAB36816.1| 7.0e-26 (AL035527) putative protein [Arabidopsis thaliana]'		

Seq. No.	54958	Seq. ID	OJ000322_12.0424.C2
Gene No.	115244	Strand	-
Start	836	End	1369
Name	OJ000322_12.0424.C2.o1.gs	Method	GENSCAN
Start	836	End	1369
GI	none	Score	.94
Exons	836..1369		

Seq. No.	54958	Seq. ID	OJ000322_12.0424.C2
Gene No.	115245	Strand	-
Start	2710	End	3099
Name	OJ000322_12.0424.C2.o2.gs	Method	GENSCAN
Start	2710	End	3099
GI	none	Score	.99
Exons	2710..3099		

Seq. No.	54959	Seq. ID	OJ000322_12.0424.C3
Gene No.	115246	Strand	-
Start	564	End	1064
Name	OJ000322_12.0424.C3.o1.tm	Method	TBLASTX:Maize
Start	555	End	1041
GI	none	Score	138
Exons	555..650, 556..651, 563..649, 796..885, 798..884, 799..909, 800..898, 954..1037, 955..1038, 978..1037, 994..1041		

Seq. No.	54959	Seq. ID	OJ000322_12.0424.C3
Gene No.	115246	Strand	-
Start	564	End	1064
Name	OJ000322_12.0424.C3.o1.gs	Method	GENSCAN
Start	564	End	1064
GI	none	Score	.89
Exons	564..649, 954..1064		

Seq. No.	54960	Seq. ID	OJ000322_12.0424.C9
Gene No.	115247	Strand	+
Start	642	End	917
Name	OJ000322_12.0424.C9.o1.gs	Method	GENSCAN
Start	642	End	917
GI	none	Score	.51
Exons	642..917		

Seq. No.	54960	Seq. ID	OJ000322_12.0424.C9
Gene No.	115248	Strand	-
Start	1	End	2886
Name	OJ000322_12.0424.C9.o1.np	Method	AAT/NAP
Start	1	End	2542
GI	6498436	Score	470
Exons	1..58, 1144..1300, 1551..1691, 1787..2293, 2342..2542		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	54960	Seq. ID	OJ000322_12.0424.C9
Gene No.	115248	Strand	-
Start	1	End	2886
Name	OJ000322_12.0424.C9.o2.np	Method	AAT/NAP
Start	1	End	2886
GI	6705984	Score	146
Exons	1..84, 2685..2886		
GI Descrip.	(AB033235) gag-pol polyprotein [Oryza sativa]		

Seq. No.	54961	Seq. ID	OJ000322_12.0424.C11
Gene No.	115249	Strand	-
Start	109	End	940
Name	OJ000322_12.0424.C11.o1.gs	Method	GENSCAN
Start	109	End	537
GI	none	Score	.5
Exons	109..158, 322..358, 461..537		

Seq. No.	54961	Seq. ID	OJ000322_12.0424.C11
Gene No.	115249	Strand	-
Start	109	End	940
Name	OJ000322_12.0424.C11.o1.np	Method	AAT/NAP
Start	322	End	940
GI	2500037	Score	76
Exons	322..358, 461..537, 905..940		
GI Descrip.	PUTATIVE ALLANTOINASE gi|7428266|pir||G64782 probable allantoinase (EC 3.5.2.5) - Escherichia coli gi|1773192|gb|AAB40264.1| (U82664) similar to S. cerevisiae dal1 [Escherichia coli] gi|1786722|gb|AAC73614.1| (AE000157) putative hydrolase [Escherichia coli] gi|2735238|gb|AAB93853.1| (U89279) GlxB3 [Escherichia coli]		

Seq. No.	54962	Seq. ID	OJ000322_12.0424.C12

Gene No.	115250	Strand	-
Start	1	End	642
Name	OJ000322_12.0424.C12.o1.gp	Method	AAT/GAP
Start	1	End	637
GI	none	Score	503
Exons	1..29, 81..212, 365..461, 553..637		

Seq. No.	54962	Seq. ID	OJ000322_12.0424.C12
Gene No.	115250	Strand	-
Start	1	End	642
Name	OJ000322_12.0424.C12.o1.gs	Method	GENSCAN
Start	91	End	642
GI	none	Score	.85
Exons	91..212, 365..405, 452..642		

Seq. No.	54963	Seq. ID	OJ000322_12.0424.C13
Gene No.	115251	Strand	+
Start	72	End	1370
Name	OJ000322_12.0424.C13.o1.tm	Method	TBLASTX:Maize
Start	71	End	1008
GI	none	Score	144
Exons	71..148, 72..146, 92..148, 257..310, 260..313, 891..1001, 898..1008, 899..1000		

Seq. No.	54963	Seq. ID	OJ000322_12.0424.C13
Gene No.	115251	Strand	+
Start	72	End	1370
Name	OJ000322_12.0424.C13.o1.gs	Method	GENSCAN
Start	72	End	1000
GI	none	Score	.81
Exons	72..147, 897..1000		

Seq. No.	54963	Seq. ID	OJ000322_12.0424.C13
Gene No.	115251	Strand	+
Start	72	End	1370
Name	OJ000322_12.0424.C13.o1.np	Method	AAT/NAP
Start	72	End	1370
GI	7485643	Score	233
Exons	72..147, 258..311, 897..1008, 1353..1370		
GI Descrip.	hypothetical protein F17L22.180 - Arabidopsis thaliana gi|4455280|emb|CAB36816.1| (AL035527) putative protein [Arabidopsis thaliana] gi|7268969|emb|CAB81279.1| (AL161555) putative protein [Arabidopsis thaliana]		

Seq. No.	54963	Seq. ID	OJ000322_12.0424.C13
Gene No.	115251	Strand	+
Start	72	End	1370
Name	OJ000322_12.0424.C13.o1.gp	Method	AAT/GAP
Start	282	End	1009
GI	uC-osflcyp023g09b1	Score	226
Exons	282..311, 897..1009		
GI Descrip.	'4455280/emb|CAB36816.1| 7.0e-26 (AL035527) putative protein [Arabidopsis thaliana]'		

Seq. No.	54964	Seq. ID	OJ000322_12.0424.C14
Gene No.	115252	Strand	+
Start	476	End	2050

Name	OJ000322_12.0424.C14.o1.gs	Method	GENSCAN
Start	476	End	2050
GI	none	Score	.92
Exons	476..535, 1539..1604, 1943..2050		

Seq. No.	54964	Seq. ID	OJ000322_12.0424.C14
Gene No.	115253	Strand	-
Start	2240	End	2400
Name	OJ000322_12.0424.C14.o2.gs	Method	GENSCAN
Start	2240	End	2400
GI	none	Score	.43
Exons	2240..2400		

Seq. No.	54965	Seq. ID	OJ000322_12.0424.C15
Gene No.	115254	Strand	-
Start	991	End	1397
Name	OJ000322_12.0424.C15.o1.gp	Method	AAT/GAP
Start	610	End	1397
GI	83139_1.R1084	Score	918
Exons	610..891, 984..1119, 1297..1397		
GI Descrip.	'728827/sp|P40757|ALLA_RANCA 3.0e-26 ALLANTOINASE PRECURSOR >gi_458126 (U03471) allantoinase [Rana catesbeiana]'		

Seq. No.	54965	Seq. ID	OJ000322_12.0424.C15
Gene No.	115254	Strand	-
Start	991	End	1397
Name	OJ000322_12.0424.C15.o1.tm	Method	TBLASTX:Maize
Start	982	End	1122
GI	none	Score	196
Exons	982..1122, 983..1120		

Seq. No.	54965	Seq. ID	OJ000322_12.0424.C15
Gene No.	115254	Strand	-
Start	991	End	1397
Name	OJ000322_12.0424.C15.o1.gs	Method	GENSCAN
Start	991	End	1119
GI	none	Score	.87
Exons	991..1119		

Seq. No.	54966	Seq. ID	OJ000322_12.0424.C17
Gene No.	115255	Strand	+
Start	771	End	2803
Name	OJ000322_12.0424.C17.o1.np	Method	AAT/NAP
Start	771	End	2803
GI	7485436	Score	193
Exons	771..811, 884..1065, 2613..2803		
GI Descrip.	hypothetical protein F13M22.24 - Arabidopsis thaliana gi|3236256|gb|AAC23644.1| (AC004684) putative C2H2-type zinc finger protein [Arabidopsis thaliana]		

Seq. No.	54966	Seq. ID	OJ000322_12.0424.C17
Gene No.	115255	Strand	+
Start	771	End	2803
Name	OJ000322_12.0424.C17.o1.gs	Method	GENSCAN
Start	774	End	1730
GI	none	Score	.56
Exons	774..1730		

Seq. No.	54966	Seq. ID	OJ000322_12.0424.C17
Gene No.	115255	Strand	+
Start	771	End	2803
Name	OJ000322_12.0424.C17.o1.tm	Method	TBLASTX:Maize
Start	893	End	1063
GI	none	Score	270
Exons	893..1048, 894..1058, 986..1063		

Seq. No.	54966	Seq. ID	OJ000322_12.0424.C17
Gene No.	115255	Strand	+
Start	771	End	2803
Name	OJ000322_12.0424.C17.o1.ts	Method	TBLASTX:Soybean
Start	941	End	1136
GI	none	Score	189
Exons	941..1048, 942..1136		

Seq. No.	54967	Seq. ID	OJ000322_12.0424.C19
Gene No.	115256	Strand	-
Start	68	End	1539
Name	OJ000322_12.0424.C19.o1.gs	Method	GENSCAN
Start	68	End	879
GI	none	Score	.4
Exons	68..312, 762..879		

Seq. No.	54967	Seq. ID	OJ000322_12.0424.C19
Gene No.	115256	Strand	-
Start	68	End	1539
Name	OJ000322_12.0424.C19.o1.np	Method	AAT/NAP
Start	664	End	1539
GI	6691191	Score	719
Exons	664..1539		
GI Descrip.	(AC007534) F7F22.15 [Arabidopsis thaliana]		

Seq. No.	54967	Seq. ID	OJ000322_12.0424.C19
Gene No.	115256	Strand	-
Start	68	End	1539
Name	OJ000322_12.0424.C19.o1.ts	Method	TBLASTX:Soybean
Start	757	End	1241
GI	none	Score	70
Exons	757..846, 940..1056, 1070..1177, 1075..1167, 1079..1240, 1125..1241		

Seq. No.	54967	Seq. ID	OJ000322_12.0424.C19
Gene No.	115256	Strand	-
Start	68	End	1539
Name	OJ000322_12.0424.C19.o1.tw	Method	TBLASTX:Wheat
Start	1112	End	1537
GI	none	Score	54
Exons	1112..1537, 1122..1253, 1130..1534		

Seq. No.	54967	Seq. ID	OJ000322_12.0424.C19
Gene No.	115256	Strand	-
Start	68	End	1539
Name	OJ000322_12.0424.C19.o2.gs	Method	GENSCAN
Start	1223	End	1537
GI	none	Score	.97

Exons	1223..1537		
Seq. No.	54967	Seq. ID	OJ000322_12.0424.C19
Gene No.	115256	Strand	-
Start	68	End	1539
Name	OJ000322_12.0424.C19.o2.ts	Method	TBLASTX:Soybean
Start	1244	End	1504
GI	none	Score	174
Exons	1244..1504, 1245..1502		
Seq. No.	54968	Seq. ID	OJ000322_12.0424.C21
Gene No.	115257	Strand	-
Start	1	End	744
Name	OJ000322_12.0424.C21.o1.np	Method	AAT/NAP
Start	1	End	744
GI	7489738	Score	865
Exons	1..744		
GI Descrip.	gag-pol polyprotein - maize copia-like retrotransposon Sto-4 gi|4234852|gb|AAD12997.1| (AF082133) gag-pol polyprotein [Zea mays]		
Seq. No.	54968	Seq. ID	OJ000322_12.0424.C21
Gene No.	115257	Strand	-
Start	1	End	744
Name	OJ000322_12.0424.C21.o1.tm	Method	TBLASTX:Maize
Start	146	End	576
GI	none	Score	112
Exons	146..346, 148..441, 415..576		
Seq. No.	54968	Seq. ID	OJ000322_12.0424.C21
Gene No.	115257	Strand	-
Start	1	End	744
Name	OJ000322_12.0424.C21.o1.gs	Method	GENSCAN
Start	172	End	599
GI	none	Score	.45
Exons	172..599		
Seq. No.	54968	Seq. ID	OJ000322_12.0424.C21
Gene No.	115257	Strand	-
Start	1	End	744
Name	OJ000322_12.0424.C21.o1.tw	Method	TBLASTX:Wheat
Start	241	End	743
GI	none	Score	160
Exons	241..690, 245..733, 647..742, 648..743		
Seq. No.	54969	Seq. ID	OJ000322_12.0424.C22
Gene No.	115258	Strand	+
Start	1	End	441
Name	OJ000322_12.0424.C22.o1.np	Method	AAT/NAP
Start	1	End	441
GI	4539658	Score	62
Exons	1..99, 215..441		
GI Descrip.	(AF061282) serine carboxypeptidase-like protein [Sorghum bicolor]		
Seq. No.	54969	Seq. ID	OJ000322_12.0424.C22
Gene No.	115259	Strand	+

Start	414	End	3099
Name	OJ000322_12.0424.C22.o1.gs	Method	GENSCAN
Start	414	End	2351
GI	none	Score	.81
Exons	414..637, 1943..2351		

Seq. No.	54969	Seq. ID	OJ000322_12.0424.C22
Gene No.	115259	Strand	+
Start	414	End	3099
Name	OJ000322_12.0424.C22.o2.np	Method	AAT/NAP
Start	506	End	3099
GI	5917666	Score	186
Exons	506..637, 1754..3099		
GI Descrip.	(AF159297) extensin-like protein [Zea mays]		

Seq. No.	54970	Seq. ID	OJ000322_12.0424.C25
Gene No.	115260	Strand	-
Start	1	End	2269
Name	OJ000322_12.0424.C25.o1.np	Method	AAT/NAP
Start	1	End	1231
GI	5689413	Score	193
Exons	1..128, 217..327, 573..685, 1111..1231		
GI Descrip.	(AB028961) KIAA1038 protein [Homo sapiens]		

Seq. No.	54970	Seq. ID	OJ000322_12.0424.C25
Gene No.	115260	Strand	-
Start	1	End	2269
Name	OJ000322_12.0424.C25.o1.tc	Method	TBLASTX:Cress
Start	3	End	327
GI	none	Score	60
Exons	3..128, 220..327, 221..325		

Seq. No.	54970	Seq. ID	OJ000322_12.0424.C25
Gene No.	115260	Strand	-
Start	1	End	2269
Name	OJ000322_12.0424.C25.o1.tm	Method	TBLASTX:Maize
Start	3	End	327
GI	none	Score	59
Exons	3..128, 28..129, 220..327, 221..325		

Seq. No.	54970	Seq. ID	OJ000322_12.0424.C25
Gene No.	115260	Strand	-
Start	1	End	2269
Name	OJ000322_12.0424.C25.o1.tw	Method	TBLASTX:Wheat
Start	3	End	327
GI	none	Score	56
Exons	3..128, 31..129, 220..327, 221..325		

Seq. No.	54970	Seq. ID	OJ000322_12.0424.C25
Gene No.	115260	Strand	-
Start	1	End	2269
Name	OJ000322_12.0424.C25.o1.ts	Method	TBLASTX:Soybean
Start	33	End	328
GI	none	Score	62
Exons	33..131, 34..129, 232..327, 242..328		

Seq. No.	54970	Seq. ID	OJ000322_12.0424.C25

Gene No.	115260	Strand	-
Start	1	End	2269
Name	OJ000322_12.0424.C25.o1.gs	Method	GENSCAN
Start	447	End	2269
GI	none	Score	.8
Exons	447..766, 1162..1239, 1868..1993, 2128..2269		

Seq. No.	54971	Seq. ID	OJ000322_12.0424.C27
Gene No.	115261	Strand	+
Start	193	End	1167
Name	OJ000322_12.0424.C27.o1.gs	Method	GENSCAN
Start	193	End	1167
GI	none	Score	.77
Exons	193..274, 1049..1167		

Seq. No.	54971	Seq. ID	OJ000322_12.0424.C27
Gene No.	115262	Strand	+
Start	1331	End	1499
Name	OJ000322_12.0424.C27.o3.np	Method	AAT/NAP
Start	1331	End	1499
GI	4378066	Score	65
Exons	1331..1499		
GI Descrip.	(AF098806) polyprotein [Sorghum bicolor] gi|4680208|gb|AAD27571.1|AF114171_12 (AF114171) polyprotein [Sorghum bicolor]		

Seq. No.	54971	Seq. ID	OJ000322_12.0424.C27
Gene No.	115263	Strand	-
Start	5	End	1499
Name	OJ000322_12.0424.C27.o1.np	Method	AAT/NAP
Start	5	End	1499
GI	6063554	Score	173
Exons	5..178, 1250..1499		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	54971	Seq. ID	OJ000322_12.0424.C27
Gene No.	115263	Strand	-
Start	5	End	1499
Name	OJ000322_12.0424.C27.o2.np	Method	AAT/NAP
Start	726	End	1499
GI	5852178	Score	133
Exons	726..825, 1165..1306, 1467..1499		
GI Descrip.	(AL117265) zhb0008.1 [Oryza sativa]		

Seq. No.	54972	Seq. ID	OJ000322_12.0424.C32
Gene No.	115264	Strand	-
Start	213	End	453
Name	OJ000322_12.0424.C32.o1.gs	Method	GENSCAN
Start	213	End	453
GI	none	Score	.62
Exons	213..453		

Seq. No.	54973	Seq. ID	OJ000322_12.0424.C33
Gene No.	115265	Strand	-
Start	1	End	2139

Name	OJ000322_12.0424.C33.o1.np	Method	AAT/NAP
Start	1	End	2139
GI	4325357	Score	359
Exons	1..678, 1477..2139		
GI Descrip.	(AF128395) contains similarity to Arabidopsis thaliana retrotransposon Athila hypothetical protein 1 (GB:X81801) [Arabidopsis thaliana]		

Seq. No.	54973	Seq. ID	OJ000322_12.0424.C33
Gene No.	115265	Strand	-
Start	1	End	2139
Name	OJ000322_12.0424.C33.o1.gs	Method	GENSCAN
Start	58	End	2075
GI	none	Score	.44
Exons	58..459, 523..821, 1196..1580, 1863..2075		

Seq. No.	54973	Seq. ID	OJ000322_12.0424.C33
Gene No.	115265	Strand	-
Start	1	End	2139
Name	OJ000322_12.0424.C33.o2.tw	Method	TBLASTX:Wheat
Start	322	End	684
GI	none	Score	114
Exons	322..507, 523..684		

Seq. No.	54973	Seq. ID	OJ000322_12.0424.C33
Gene No.	115265	Strand	-
Start	1	End	2139
Name	OJ000322_12.0424.C33.o1.tc	Method	TBLASTX:Cress
Start	1455	End	1763
GI	none	Score	200
Exons	1455..1763		

Seq. No.	54973	Seq. ID	OJ000322_12.0424.C33
Gene No.	115265	Strand	-
Start	1	End	2139
Name	OJ000322_12.0424.C33.o1.tw	Method	TBLASTX:Wheat
Start	1482	End	1910
GI	none	Score	66
Exons	1482..1589, 1563..1778, 1794..1910		

Seq. No.	54974	Seq. ID	OJ000322_12.0424.C34
Gene No.	115266	Strand	+
Start	765	End	1153
Name	OJ000322_12.0424.C34.o1.np	Method	AAT/NAP
Start	765	End	1153
GI	4417306	Score	136
Exons	765..1153		
GI Descrip.	(AC006446) putative Athila retroelement ORF1 protein [Arabidopsis thaliana]		

Seq. No.	54975	Seq. ID	OJ000322_12.0424.C35
Gene No.	115267	Strand	-
Start	1139	End	1251
Name	OJ000322_12.0424.C35.o1.gs	Method	GENSCAN
Start	1139	End	1251
GI	none	Score	.5
Exons	1139..1251		

Seq. No.	54976	Seq. ID	OJ000322_12.0424.C36
Gene No.	115268	Strand	+
Start	600	End	1000
Name	OJ000322_12.0424.C36.o1.gs	Method	GENSCAN
Start	600	End	1000
GI	none	Score	.54
Exons	600..739, 763..1000		

Seq. No.	54977	Seq. ID	OJ000322_12.0424.C37
Gene No.	115269	Strand	-
Start	77	End	1320
Name	OJ000322_12.0424.C37.o1.gs	Method	GENSCAN
Start	77	End	1320
GI	none	Score	.69
Exons	77..408, 1266..1320		

Seq. No.	54978	Seq. ID	OJ000322_12.0424.C38
Gene No.	115270	Strand	+
Start	2197	End	2569
Name	OJ000322_12.0424.C38.o1.np	Method	AAT/NAP
Start	2197	End	2569
GI	2708709	Score	52
Exons	2197..2569		
GI Descrip.	(AF038575) Wiskott-Aldrich Syndrome protein homolog [Schizosaccharomyces pombe]		

Seq. No.	54978	Seq. ID	OJ000322_12.0424.C38
Gene No.	115271	Strand	-
Start	142	End	2300
Name	OJ000322_12.0424.C38.o1.gs	Method	GENSCAN
Start	142	End	2300
GI	none	Score	.65
Exons	142..266, 1365..1401, 1896..1943, 2238..2300		

Seq. No.	54979	Seq. ID	OJ000322_12.0424.C39
Gene No.	115272	Strand	+
Start	1	End	1734
Name	OJ000322_12.0424.C39.o1.np	Method	AAT/NAP
Start	1	End	1453
GI	7327811	Score	505
Exons	1..139, 248..485, 1246..1453		
GI Descrip.	(AL161946) putative protein [Arabidopsis thaliana]		

Seq. No.	54979	Seq. ID	OJ000322_12.0424.C39
Gene No.	115272	Strand	+
Start	1	End	1734
Name	OJ000322_12.0424.C39.o1.tc	Method	TBLASTX:Cress
Start	64	End	1429
GI	none	Score	81
Exons	64..138, 241..357, 246..326, 340..510, 367..486, 1252..1329, 1253..1312, 1271..1429, 1313..1405		

Seq. No.	54979	Seq. ID	OJ000322_12.0424.C39
Gene No.	115272	Strand	+
Start	1	End	1734
Name	OJ000322_12.0424.C39.o2.ts	Method	TBLASTX:Soybean

Start	64	End	510
GI	none	Score	67
Exons	64..138, 241..300, 295..510, 402..485		

Seq. No.	54979	Seq. ID	OJ000322_12.0424.C39
Gene No.	115272	Strand	+
Start	1	End	1734
Name	OJ000322_12.0424.C39.o1.tm	Method	TBLASTX:Maize
Start	64	End	465
GI	none	Score	138
Exons	64..156, 72..212, 72..149, 219..464, 238..465, 246..464		

Seq. No.	54979	Seq. ID	OJ000322_12.0424.C39
Gene No.	115272	Strand	+
Start	1	End	1734
Name	OJ000322_12.0424.C39.o1.gs	Method	GENSCAN
Start	268	End	1456
GI	none	Score	.51
Exons	268..485, 1246..1456		

Seq. No.	54979	Seq. ID	OJ000322_12.0424.C39
Gene No.	115272	Strand	+
Start	1	End	1734
Name	OJ000322_12.0424.C39.o1.gp	Method	AAT/GAP
Start	396	End	1734
GI	LIB3434-055-P1-K1-B3	Score	1027
Exons	396..485, 1246..1734		
GI Descrip.	'2213626 8.0e-26 (AC000103) F21J9.18 [Arabidopsis thaliana]'		

Seq. No.	54979	Seq. ID	OJ000322_12.0424.C39
Gene No.	115272	Strand	+
Start	1	End	1734
Name	OJ000322_12.0424.C39.o1.ts	Method	TBLASTX:Soybean
Start	1237	End	1478
GI	none	Score	318
Exons	1237..1455, 1241..1456, 1242..1478, 1243..1476		

Seq. No.	54979	Seq. ID	OJ000322_12.0424.C39
Gene No.	115272	Strand	+
Start	1	End	1734
Name	OJ000322_12.0424.C39.o2.tm	Method	TBLASTX:Maize
Start	1245	End	1458
GI	none	Score	93
Exons	1245..1370, 1249..1443, 1250..1456, 1330..1458		

Seq. No.	54980	Seq. ID	OJ000322_12.0424.C40
Gene No.	115273	Strand	+
Start	1	End	1162
Name	OJ000322_12.0424.C40.o1.np	Method	AAT/NAP
Start	1	End	1136
GI	7021732	Score	436
Exons	1..123, 555..1136		
GI Descrip.	(AC024081) unknown protein [Arabidopsis thaliana]		

Seq. No.	54980	Seq. ID	OJ000322_12.0424.C40
Gene No.	115273	Strand	+
Start	1	End	1162

Name	OJ000322_12.0424.C40.o1.tm	Method	TBLASTX:Maize
Start	28	End	1162
GI	none	Score	138
Exons	28..123, 28..114, 30..119, 554..823, 555..767, 794..889, 825..890, 917..1156, 921..1160, 921..1160, 922..1161, 923..1162		

Seq. No.	54980	Seq. ID	OJ000322_12.0424.C40
Gene No.	115273	Strand	+
Start	1	End	1162
Name	OJ000322_12.0424.C40.o1.gs	Method	GENSCAN
Start	556	End	1139
GI	none	Score	.89
Exons	556..1139		

Seq. No.	54981	Seq. ID	OJ000322_12.0424.C41
Gene No.	115274	Strand	-
Start	274	End	378
Name	OJ000322_12.0424.C41.o1.gp	Method	AAT/GAP
Start	274	End	376
GI	5004157	Score	181
Exons	274..376		
GI Descrip.	1061305/emb|X79934|ZMDOF2 3.0e-16 Z.mays Dof2 mRNA		

Seq. No.	54981	Seq. ID	OJ000322_12.0424.C41
Gene No.	115274	Strand	-
Start	274	End	378
Name	OJ000322_12.0424.C41.o1.gs	Method	GENSCAN
Start	274	End	378
GI	none	Score	.88
Exons	274..378		

Seq. No.	54982	Seq. ID	OJ000322_12.0424.C42
Gene No.	115275	Strand	-
Start	2473	End	3067
Name	OJ000322_12.0424.C42.o2.gs	Method	GENSCAN
Start	2473	End	3067
GI	none	Score	.4
Exons	2473..2630, 3019..3067		

Seq. No.	54983	Seq. ID	OJ000322_12.0424.C43
Gene No.	115276	Strand	+
Start	52	End	1211
Name	OJ000322_12.0424.C43.o1.np	Method	AAT/NAP
Start	52	End	1208
GI	629829	Score	1554
Exons	52..1208		
GI Descrip.	protochlorophyllide reductase (EC 1.3.1.33) - wheat gi|510677|emb|CAA54042| (X76532) protochlorophyilide reductase [Triticum aestivum]		

Seq. No.	54983	Seq. ID	OJ000322_12.0424.C43
Gene No.	115276	Strand	+
Start	52	End	1211
Name	OJ000322_12.0424.C43.o1.gs	Method	GENSCAN
Start	54	End	1211
GI	none	Score	.62
Exons	54..849, 870..1211		

Seq. No.	54983	Seq. ID	OJ000322_12.0424.C43
Gene No.	115277	Strand	+
Start	1907	End	2525
Name	OJ000322_12.0424.C43.o2.gp	Method	AAT/GAP
Start	1907	End	2525
GI	13076_1.R1084	Score	496
Exons	1907..2104, 2466..2525		
GI Descrip.	'4758922/ref|NP_004269.1|pPIGL| 2.0e-28 phosphatidylinositol glycan, class L >gi_4239986_dbj_BAA74775.1_ (AB017165) PIG-L [Homo sapiens]'		

Seq. No.	54983	Seq. ID	OJ000322_12.0424.C43
Gene No.	115278	Strand	-
Start	104	End	1360
Name	OJ000322_12.0424.C43.o1.gp	Method	AAT/GAP
Start	104	End	1360
GI	1444_1.R1084	Score	2430
Exons	104..1360		
GI Descrip.	'629829/pir||S39394 1.0e-146 protochlorophyllide reductase (EC 1.3.1.33) - wheat >gi_510677_emb_CAA54042_ (X76532) protochlorophyilide reductase [Triticum aestivum]'		

Seq. No.	54983	Seq. ID	OJ000322_12.0424.C43
Gene No.	115279	Strand	-
Start	1703	End	2525
Name	OJ000322_12.0424.C43.o1.tm	Method	TBLASTX:Maize
Start	108	End	1213
GI	none	Score	44
Exons	108..158, 109..159, 154..846, 243..281, 342..731, 780..845, 825..1211, 826..948, 1004..1210, 1067..1213		

Seq. No.	54983	Seq. ID	OJ000322_12.0424.C43
Gene No.	115279	Strand	-
Start	1703	End	2525
Name	OJ000322_12.0424.C43.o1.ts	Method	TBLASTX:Soybean
Start	234	End	1214
GI	none	Score	600
Exons	234..281, 244..732, 342..731, 781..810, 825..1214, 826..936, 848..949, 1007..1213		

Seq. No.	54983	Seq. ID	OJ000322_12.0424.C43
Gene No.	115279	Strand	-
Start	1703	End	2525
Name	OJ000322_12.0424.C43.o1.tc	Method	TBLASTX:Cress
Start	244	End	1211
GI	none	Score	625
Exons	244..810, 342..728, 825..1211, 848..949, 1007..1204		

Seq. No.	54983	Seq. ID	OJ000322_12.0424.C43
Gene No.	115279	Strand	-
Start	1703	End	2525
Name	OJ000322_12.0424.C43.o2.gs	Method	GENSCAN
Start	1703	End	2125
GI	none	Score	.8
Exons	1703..2125		

Seq. No.	54983	Seq. ID	OJ000322_12.0424.C43
Gene No.	115279	Strand	-
Start	1703	End	2525
Name	OJ000322_12.0424.C43.o2.tm	Method	TBLASTX:Maize
Start	1911	End	2525
GI	none	Score	260
Exons	1911..2108, 1916..2104, 2463..2525, 2467..2523		

Seq. No.	54984	Seq. ID	OJ000322_12.0424.C44
Gene No.	115280	Strand	+
Start	293	End	2082
Name	OJ000322_12.0424.C44.o1.gp	Method	AAT/GAP
Start	293	End	2071
GI	13076_1.R1084	Score	997
Exons	293..360, 898..946, 1286..1443, 1808..2071		
GI Descrip.	'4758922/ref|NP_004269.1|pPIGL| 2.0e-28 phosphatidylinositol glycan, class L >gi_4239986_dbj_BAA74775.1_ (AB017165) PIG-L [Homo sapiens]'		

Seq. No.	54984	Seq. ID	OJ000322_12.0424.C44
Gene No.	115280	Strand	+
Start	293	End	2082
Name	OJ000322_12.0424.C44.o1.gs	Method	GENSCAN
Start	293	End	2082
GI	none	Score	.49
Exons	293..360, 898..1094, 1357..1443, 1892..2082		

Seq. No.	54984	Seq. ID	OJ000322_12.0424.C44
Gene No.	115281	Strand	-
Start	2914	End	3374
Name	OJ000322_12.0424.C44.o2.gs	Method	GENSCAN
Start	2914	End	3374
GI	none	Score	.97
Exons	2914..3374		

Seq. No.	54985	Seq. ID	OJ000322_12.0424.C45
Gene No.	115282	Strand	+
Start	1	End	1618
Name	OJ000322_12.0424.C45.o1.np	Method	AAT/NAP
Start	1	End	1618
GI	4454470	Score	1535
Exons	1..66, 198..1618		
GI Descrip.	(AC006234) putative sugar transporter [Arabidopsis thaliana]		

Seq. No.	54985	Seq. ID	OJ000322_12.0424.C45
Gene No.	115282	Strand	+
Start	1	End	1618
Name	OJ000322_12.0424.C45.o1.gs	Method	GENSCAN
Start	239	End	1612
GI	none	Score	.79
Exons	239..1612		

Seq. No.	54985	Seq. ID	OJ000322_12.0424.C45
Gene No.	115283	Strand	+
Start	2809	End	4487
Name	OJ000322_12.0424.C45.o1.ts	Method	TBLASTX:Soybean
Start	215	End	4483

GI	none	Score	565
Exons	215..799, 226..741, 895..1158, 896..1507, 1222..1434, 2989..3042, 3430..3579, 3431..4075, 3712..3951, 4081..4344, 4088..4345, 4439..4483		

Seq. No.	54985	Seq. ID	OJ000322_12.0424.C45
Gene No.	115283	Strand	+
Start	2809	End	4487
Name	OJ000322_12.0424.C45.o1.tm	Method	TBLASTX:Maize
Start	227	End	4483
GI	none	Score	500
Exons	227..793, 229..744, 641..781, 893..1147, 901..1164, 1195..1428, 1196..1432, 3431..4066, 3433..3642, 3712..3984, 3920..3985, 4091..4348, 4099..4347, 4439..4483		

Seq. No.	54985	Seq. ID	OJ000322_12.0424.C45
Gene No.	115283	Strand	+
Start	2809	End	4487
Name	OJ000322_12.0424.C45.o1.tc	Method	TBLASTX:Cress
Start	326	End	4321
GI	none	Score	255
Exons	326..799, 902..1048, 1034..1147, 1232..1402, 1424..1495, 3530..4015, 4100..4246, 4232..4321		

Seq. No.	54985	Seq. ID	OJ000322_12.0424.C45
Gene No.	115283	Strand	+
Start	2809	End	4487
Name	OJ000322_12.0424.C45.o1.tw	Method	TBLASTX:Wheat
Start	601	End	4075
GI	none	Score	200
Exons	601..744, 602..799, 635..790, 3805..3951, 3806..4075, 3920..4069		

Seq. No.	54985	Seq. ID	OJ000322_12.0424.C45
Gene No.	115283	Strand	+
Start	2809	End	4487
Name	OJ000322_12.0424.C45.o2.gs	Method	GENSCAN
Start	2809	End	4465
GI	none	Score	.69
Exons	2809..3043, 3432..4465		

Seq. No.	54985	Seq. ID	OJ000322_12.0424.C45
Gene No.	115283	Strand	+
Start	2809	End	4487
Name	OJ000322_12.0424.C45.o2.np	Method	AAT/NAP
Start	2809	End	4487
GI	4454470	Score	1184
Exons	2809..3045, 3375..4487		
GI Descrip.	(AC006234) putative sugar transporter [Arabidopsis thaliana]		

Seq. No.	54986	Seq. ID	OJ000322_12.0424.C46
Gene No.	115284	Strand	+
Start	1	End	627
Name	OJ000322_12.0424.C46.o1.np	Method	AAT/NAP
Start	1	End	627
GI	7487670	Score	75
Exons	1..51, 415..627		
GI Descrip.	hypothetical protein T5C23.140 - Arabidopsis thaliana		

gi|4539462|emb|CAB39942.1| (AL049500) putative protein [Arabidopsis thaliana] gi|7267871|emb|CAB78214.1| (AL161532) putative protein [Arabidopsis thaliana]

Seq. No.	54986	Seq. ID	OJ000322_12.0424.C46
Gene No.	115285	Strand	+
Start	588	End	753
Name	OJ000322_12.0424.C46.o1.gs	Method	GENSCAN
Start	588	End	753
GI	none	Score	.63
Exons	588..753		

Seq. No.	54986	Seq. ID	OJ000322_12.0424.C46
Gene No.	115286	Strand	+
Start	1622	End	3535
Name	OJ000322_12.0424.C46.o2.gs	Method	GENSCAN
Start	1622	End	3535
GI	none	Score	.69
Exons	1622..1971, 2986..3146, 3384..3535		

Seq. No.	54986	Seq. ID	OJ000322_12.0424.C46
Gene No.	115287	Strand	+
Start	4311	End	4390
Name	OJ000322_12.0424.C46.o1.gp	Method	AAT/GAP
Start	4311	End	4390
GI	21771_1.R1084	Score	126
Exons	4311..4390		
GI Descrip.	'4454472/gb|AAD20919| 4.0e-27 (AC006234) unknown protein [Arabidopsis thaliana]'		

Seq. No.	54987	Seq. ID	OJ000322_12.0424.C47
Gene No.	115288	Strand	-
Start	382	End	1634
Name	OJ000322_12.0424.C47.o1.gs	Method	GENSCAN
Start	382	End	1552
GI	none	Score	.82
Exons	382..722, 1197..1284, 1372..1552		

Seq. No.	54987	Seq. ID	OJ000322_12.0424.C47
Gene No.	115288	Strand	-
Start	382	End	1634
Name	OJ000322_12.0424.C47.o1.np	Method	AAT/NAP
Start	492	End	1634
GI	5923666	Score	542
Exons	492..725, 1137..1284, 1372..1634		
GI Descrip.	(AC009326) putative receptor ser/thr protein kinase [Arabidopsis thaliana]		

Seq. No.	54987	Seq. ID	OJ000322_12.0424.C47
Gene No.	115288	Strand	-
Start	382	End	1634
Name	OJ000322_12.0424.C47.o1.ts	Method	TBLASTX:Soybean
Start	513	End	1566
GI	none	Score	115
Exons	513..722, 517..639, 1173..1283, 1183..1296, 1210..1287, 1371..1565, 1372..1566		

Seq. No.	54987	Seq. ID	OJ000322_12.0424.C47
Gene No.	115288	Strand	-
Start	382	End	1634
Name	OJ000322_12.0424.C47.o1.tm	Method	TBLASTX:Maize
Start	603	End	1613
GI	none	Score	76
Exons	603..725, 615..728, 674..736, 1137..1283, 1146..1283, 1198..1284, 1207..1344, 1370..1609, 1371..1613, 1372..1437, 1377..1610		

Seq. No.	54987	Seq. ID	OJ000322_12.0424.C47
Gene No.	115288	Strand	-
Start	382	End	1634
Name	OJ000322_12.0424.C47.o1.tc	Method	TBLASTX:Cress
Start	648	End	1580
GI	none	Score	69
Exons	648..722, 1152..1283, 1213..1410, 1372..1566, 1374..1580		

Seq. No.	54987	Seq. ID	OJ000322_12.0424.C47
Gene No.	115288	Strand	-
Start	382	End	1634
Name	OJ000322_12.0424.C47.o1.tw	Method	TBLASTX:Wheat
Start	1185	End	1580
GI	none	Score	54
Exons	1185..1307, 1213..1287, 1372..1437, 1374..1580		

Seq. No.	54988	Seq. ID	OJ000322_12.0424.C48
Gene No.	115289	Strand	+
Start	55	End	1724
Name	OJ000322_12.0424.C48.o1.gs	Method	GENSCAN
Start	55	End	1724
GI	none	Score	.68
Exons	55..114, 1512..1724		

Seq. No.	54988	Seq. ID	OJ000322_12.0424.C48
Gene No.	115290	Strand	-
Start	1206	End	1688
Name	OJ000322_12.0424.C48.o1.np	Method	AAT/NAP
Start	1206	End	1413
GI	4454475	Score	128
Exons	1206..1413		
GI Descrip.	(AC006234) unknown protein [Arabidopsis thaliana]		

Seq. No.	54988	Seq. ID	OJ000322_12.0424.C48
Gene No.	115290	Strand	-
Start	1206	End	1688
Name	OJ000322_12.0424.C48.o1.gp	Method	AAT/GAP
Start	1245	End	1688
GI	LIB3434-044-P1-K1-G7	Score	800
Exons	1245..1688		
GI Descrip.	'4454475/gb|AAD20922| 6.0e-10 (AC006234) unknown protein [Arabidopsis thaliana]'		

Seq. No.	54988	Seq. ID	OJ000322_12.0424.C48
Gene No.	115290	Strand	-
Start	1206	End	1688
Name	OJ000322_12.0424.C48.o1.tm	Method	TBLASTX:Maize

Start	1252	End	1432
GI	none	Score	164
Exons	1252..1416, 1255..1377, 1259..1432		

Seq. No.	54989	Seq. ID	OJ000322_12.0424.C49
Gene No.	115291	Strand	-
Start	1910	End	2307
Name	OJ000322_12.0424.C49.o1.np	Method	AAT/NAP
Start	1365	End	2307
GI	7339707	Score	139
Exons	1365..1511, 1577..1787, 2234..2307		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	54989	Seq. ID	OJ000322_12.0424.C49
Gene No.	115291	Strand	-
Start	1910	End	2307
Name	OJ000322_12.0424.C49.o1.tm	Method	TBLASTX:Maize
Start	1678	End	2156
GI	none	Score	35
Exons	1678..1752, 1686..1730, 1687..1728, 1724..1762, 1731..1793, 1872..2000, 1880..1999, 1895..2032, 1980..2156, 2003..2125		

Seq. No.	54989	Seq. ID	OJ000322_12.0424.C49
Gene No.	115291	Strand	-
Start	1910	End	2307
Name	OJ000322_12.0424.C49.o2.np	Method	AAT/NAP
Start	1880	End	2199
GI	6598934	Score	122
Exons	1880..2199		
GI Descrip.	(AC018721) unknown protein [Arabidopsis thaliana]		

Seq. No.	54989	Seq. ID	OJ000322_12.0424.C49
Gene No.	115291	Strand	-
Start	1910	End	2307
Name	OJ000322_12.0424.C49.o1.gs	Method	GENSCAN
Start	1910	End	2117
GI	none	Score	.52
Exons	1910..2117		

Seq. No.	54990	Seq. ID	OJ000322_12.0424.C50
Gene No.	115292	Strand	+
Start	1	End	1685
Name	OJ000322_12.0424.C50.o1.np	Method	AAT/NAP
Start	1	End	155
GI	7488218	Score	144
Exons	1..155		
GI Descrip.	probable transcription factor - Arabidopsis thaliana gi|2245059|emb|CAB10482.1| (Z97342) transcription factor like protein [Arabidopsis thaliana] gi|7268453|emb|CAB80973.1| (AL161545) transcription factor like protein [Arabidopsis thaliana]		

Seq. No.	54990	Seq. ID	OJ000322_12.0424.C50
Gene No.	115292	Strand	+
Start	1	End	1685
Name	OJ000322_12.0424.C50.o1.gs	Method	GENSCAN
Start	3	End	1685

GI	none	Score	.79
Exons	3..133, 751..819, 1480..1685		

Seq. No.	54990	Seq. ID	OJ000322_12.0424.C50
Gene No.	115292	Strand	+
Start	1	End	1685
Name	OJ000322_12.0424.C50.o1.tm	Method	TBLASTX:Maize
Start	3	End	1655
GI	none	Score	197
Exons	3..134, 749..808, 757..828, 1307..1399, 1308..1370, 1308..1400, 1309..1404, 1310..1399, 1563..1655, 1567..1653, 1568..1654, 1569..1655		

Seq. No.	54991	Seq. ID	OJ000322_12.0424.C51
Gene No.	115293	Strand	-
Start	1	End	1022
Name	OJ000322_12.0424.C51.o1.np	Method	AAT/NAP
Start	1	End	1022
GI	4539658	Score	185
Exons	1..128, 237..360, 979..1022		
GI Descrip.	(AF061282) serine carboxypeptidase-like protein [Sorghum bicolor]		

Seq. No.	54991	Seq. ID	OJ000322_12.0424.C51
Gene No.	115293	Strand	-
Start	1	End	1022
Name	OJ000322_12.0424.C51.o1.tm	Method	TBLASTX:Maize
Start	227	End	461
GI	none	Score	106
Exons	227..343, 227..346, 331..447, 332..460, 339..461, 341..460		

Seq. No.	54992	Seq. ID	OJ000322_12.0424.C52
Gene No.	115294	Strand	+
Start	1	End	627
Name	OJ000322_12.0424.C52.o1.np	Method	AAT/NAP
Start	1	End	627
GI	6273652	Score	195
Exons	1..141, 256..411, 501..627		
GI Descrip.	(AL132824) putative allantoinase [Streptomyces coelicolor A3(2)]		

Seq. No.	54992	Seq. ID	OJ000322_12.0424.C52
Gene No.	115294	Strand	+
Start	1	End	627
Name	OJ000322_12.0424.C52.o1.tm	Method	TBLASTX:Maize
Start	252	End	611
GI	none	Score	149
Exons	252..413, 255..410, 256..420, 500..610, 501..611		

Seq. No.	54992	Seq. ID	OJ000322_12.0424.C52
Gene No.	115294	Strand	+
Start	1	End	627
Name	OJ000322_12.0424.C52.o1.ts	Method	TBLASTX:Soybean
Start	253	End	627
GI	none	Score	60
Exons	253..405, 255..401, 255..413, 256..420, 500..625, 501..626, 532..627		

Seq. No.	54992	Seq. ID	OJ000322_12.0424.C52
Gene No.	115294	Strand	+
Start	1	End	627
Name	OJ000322_12.0424.C52.o1.gp	Method	AAT/GAP
Start	254	End	564
GI	3760247	Score	392
Exons	254..411, 501..564		
GI Descrip.	728827/sp|P40757|ALLA_RANCA 3.0e-26 ALLANTOINASE PRECURSOR >gi_458126 (U03471) allantoinase [Rana catesbeiana]		

Seq. No.	54992	Seq. ID	OJ000322_12.0424.C52
Gene No.	115294	Strand	+
Start	1	End	627
Name	OJ000322_12.0424.C52.o1.gs	Method	GENSCAN
Start	256	End	456
GI	none	Score	.52
Exons	256..456		

Seq. No.	54993	Seq. ID	OJ000322_12.0424.C53
Gene No.	115295	Strand	+
Start	431	End	1239
Name	OJ000322_12.0424.C53.o1.np	Method	AAT/NAP
Start	431	End	1239
GI	5902448	Score	946
Exons	431..822, 1046..1239		
GI Descrip.	(AB030283) orf3 [Oryza sativa]		

Seq. No.	54993	Seq. ID	OJ000322_12.0424.C53
Gene No.	115296	Strand	-
Start	313	End	428
Name	OJ000322_12.0424.C53.o1.gs	Method	GENSCAN
Start	313	End	428
GI	none	Score	.61
Exons	313..428		

Seq. No.	54994	Seq. ID	OJ000322_12.0424.C54
Gene No.	115297	Strand	+
Start	1	End	3847
Name	OJ000322_12.0424.C54.o1.np	Method	AAT/NAP
Start	1	End	3776
GI	5852180	Score	90
Exons	1..115, 698..759, 1932..2232, 2394..2565, 3671..3776		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	54994	Seq. ID	OJ000322_12.0424.C54
Gene No.	115297	Strand	+
Start	1	End	3847
Name	OJ000322_12.0424.C54.o2.np	Method	AAT/NAP
Start	1	End	1063
GI	4680186	Score	218
Exons	1..41, 859..1063		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	54994	Seq. ID	OJ000322_12.0424.C54
Gene No.	115297	Strand	+
Start	1	End	3847
Name	OJ000322_12.0424.C54.o1.gs	Method	GENSCAN

Start	952	End	1562
GI	none	Score	.55
Exons	952..1060, 1456..1562		

Seq. No.	54994	Seq. ID	OJ000322_12.0424.C54
Gene No.	115297	Strand	+
Start	1	End	3847
Name	OJ000322_12.0424.C54.o4.np	Method	AAT/NAP
Start	3037	End	3847
GI	4680183	Score	212
Exons	3037..3149, 3758..3847		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	54994	Seq. ID	OJ000322_12.0424.C54
Gene No.	115298	Strand	-
Start	608	End	992
Name	OJ000322_12.0424.C54.o1.gp	Method	AAT/GAP
Start	608	End	992
GI	uC-osflcyp033a04b1	Score	682
Exons	608..992		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	54994	Seq. ID	OJ000322_12.0424.C54
Gene No.	115299	Strand	-
Start	1455	End	4049
Name	OJ000322_12.0424.C54.o3.np	Method	AAT/NAP
Start	1455	End	4049
GI	6907087	Score	529
Exons	1455..1556, 2096..2752, 2800..2865, 4029..4049		
GI Descrip.	(AP001129) ESTs C72771(E2215),AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	54994	Seq. ID	OJ000322_12.0424.C54
Gene No.	115299	Strand	-
Start	1455	End	4049
Name	OJ000322_12.0424.C54.o2.gs	Method	GENSCAN
Start	1971	End	3857
GI	none	Score	.68
Exons	1971..2690, 2713..2770, 3004..3144, 3793..3857		

Seq. No.	54994	Seq. ID	OJ000322_12.0424.C54
Gene No.	115299	Strand	-
Start	1455	End	4049
Name	OJ000322_12.0424.C54.o2.gp	Method	AAT/GAP
Start	2935	End	3145
GI	1631463	Score	343
Exons	2935..3145		
GI Descrip.	4680178/gb|AF111709.1|AF111709 5.0e-81 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes		

Seq. No.	54995	Seq. ID	OJ000322_12.0424.C55
Gene No.	115300	Strand	-
Start	1	End	1179
Name	OJ000322_12.0424.C55.o1.np	Method	AAT/NAP

Start	1	End	1179
GI	6907087	Score	472
Exons	1..243, 698..1179		
GI Descrip.	(AP001129) ESTs C72771(E2215),AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	54995	Seq. ID	OJ000322_12.0424.C55
Gene No.	115300	Strand	-
Start	1	End	1179
Name	OJ000322_12.0424.C55.o1.gs	Method	GENSCAN
Start	662	End	1129
GI	none	Score	.73
Exons	662..944, 1080..1129		

Seq. No.	54996	Seq. ID	OJ000322_12.0424.C59
Gene No.	115301	Strand	-
Start	536	End	712
Name	OJ000322_12.0424.C59.o1.gs	Method	GENSCAN
Start	536	End	712
GI	none	Score	.97
Exons	536..712		

Seq. No.	54997	Seq. ID	OJ000322_12.0424.C61
Gene No.	115302	Strand	-
Start	647	End	688
Name	OJ000322_12.0424.C61.o1.gs	Method	GENSCAN
Start	647	End	688
GI	none	Score	.94
Exons	647..688		

Seq. No.	54998	Seq. ID	OJ000322_12.0424.C62
Gene No.	115303	Strand	+
Start	112	End	558
Name	OJ000322_12.0424.C62.o1.gs	Method	GENSCAN
Start	112	End	558
GI	none	Score	.71
Exons	112..236, 519..558		

Seq. No.	54998	Seq. ID	OJ000322_12.0424.C62
Gene No.	115304	Strand	+
Start	584	End	1253
Name	OJ000322_12.0424.C62.o1.np	Method	AAT/NAP
Start	584	End	1253
GI	484643	Score	39
Exons	584..739, 767..837, 1232..1253		
GI Descrip.	proline-rich cell wall protein - carrot gi|470322 (L01775) proline-rich protein [Daucus carota]		

Seq. No.	54999	Seq. ID	OJ000322_12.0424.C63
Gene No.	115305	Strand	-
Start	922	End	1991
Name	OJ000322_12.0424.C63.o1.gs	Method	GENSCAN
Start	922	End	1991
GI	none	Score	.67
Exons	922..1078, 1158..1280, 1903..1991		

Seq. No.	55000	Seq. ID	OJ000322_12.0424.C65
Gene No.	115306	Strand	-
Start	1	End	845
Name	OJ000322_12.0424.C65.o1.np	Method	AAT/NAP
Start	1	End	845
GI	6634722	Score	192
Exons	1..599, 799..845		
GI Descrip.	(AC012463) T2E6.5 [Arabidopsis thaliana]		

Seq. No.	55000	Seq. ID	OJ000322_12.0424.C65
Gene No.	115306	Strand	-
Start	1	End	845
Name	OJ000322_12.0424.C65.o1.gs	Method	GENSCAN
Start	132	End	484
GI	none	Score	.72
Exons	132..484		

Seq. No.	55000	Seq. ID	OJ000322_12.0424.C65
Gene No.	115306	Strand	-
Start	1	End	845
Name	OJ000322_12.0424.C65.o1.ts	Method	TBLASTX:Soybean
Start	135	End	584
GI	none	Score	56
Exons	135..215, 157..225, 282..584		

Seq. No.	55000	Seq. ID	OJ000322_12.0424.C65
Gene No.	115306	Strand	-
Start	1	End	845
Name	OJ000322_12.0424.C65.o1.tw	Method	TBLASTX:Wheat
Start	165	End	584
GI	none	Score	36
Exons	165..215, 166..210, 315..584, 319..525		

Seq. No.	55000	Seq. ID	OJ000322_12.0424.C65
Gene No.	115306	Strand	-
Start	1	End	845
Name	OJ000322_12.0424.C65.o1.tm	Method	TBLASTX:Maize
Start	246	End	590
GI	none	Score	71
Exons	246..590, 253..441		

Seq. No.	55001	Seq. ID	OJ000322_12.0424.C68
Gene No.	115307	Strand	+
Start	1	End	3497
Name	OJ000322_12.0424.C68.o1.np	Method	AAT/NAP
Start	1	End	3380
GI	5042454	Score	64
Exons	1..66, 3305..3380		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	55001	Seq. ID	OJ000322_12.0424.C68
Gene No.	115307	Strand	+
Start	1	End	3497
Name	OJ000322_12.0424.C68.o2.gs	Method	GENSCAN
Start	2085	End	3497
GI	none	Score	.71
Exons	2085..2207, 2752..2821, 2938..2981, 3327..3497		

Seq. No.	55001	Seq. ID	OJ000322_12.0424.C68
Gene No.	115308	Strand	-
Start	2012	End	3530
Name	OJ000322_12.0424.C68.o2.np	Method	AAT/NAP
Start	2012	End	3530
GI	5922623	Score	73
Exons	2012..2039, 3441..3530		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi|6016856|dbj|BAA85199.1| (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	55002	Seq. ID	OJ000322_12.0424.C69
Gene No.	115309	Strand	+
Start	1	End	1444
Name	OJ000322_12.0424.C69.o1.np	Method	AAT/NAP
Start	1	End	1444
GI	6063554	Score	120
Exons	1..79, 599..629, 1271..1444		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	55002	Seq. ID	OJ000322_12.0424.C69
Gene No.	115309	Strand	+
Start	1	End	1444
Name	OJ000322_12.0424.C69.o1.gs	Method	GENSCAN
Start	99	End	680
GI	none	Score	.97
Exons	99..197, 600..680		

Seq. No.	55002	Seq. ID	OJ000322_12.0424.C69
Gene No.	115310	Strand	-
Start	599	End	829
Name	OJ000322_12.0424.C69.o1.gp	Method	AAT/GAP
Start	599	End	829
GI	101153_1.R1084	Score	353
Exons	599..829		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 1.0e-115 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	55003	Seq. ID	OJ000322_12.0424.C70
Gene No.	115311	Strand	+
Start	1	End	1675
Name	OJ000322_12.0424.C70.o1.np	Method	AAT/NAP
Start	1	End	1673
GI	7340868	Score	71
Exons	1..87, 324..469, 1651..1673		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	55003	Seq. ID	OJ000322_12.0424.C70
Gene No.	115311	Strand	+
Start	1	End	1675
Name	OJ000322_12.0424.C70.o1.gs	Method	GENSCAN
Start	1339	End	1675
GI	none	Score	.64
Exons	1339..1497, 1590..1675		

Seq. No.	55003	Seq. ID	OJ000322_12.0424.C70
Gene No.	115312	Strand	-
Start	817	End	2921
Name	OJ000322_12.0424.C70.o2.np	Method	AAT/NAP
Start	817	End	2768
GI	5295955	Score	895
Exons	817..1411, 1451..1514, 1594..1970, 2651..2768		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		

Seq. No.	55003	Seq. ID	OJ000322_12.0424.C70
Gene No.	115312	Strand	-
Start	817	End	2921
Name	OJ000322_12.0424.C70.o2.gs	Method	GENSCAN
Start	2146	End	2921
GI	none	Score	.64
Exons	2146..2227, 2642..2765, 2912..2921		

Seq. No.	55003	Seq. ID	OJ000322_12.0424.C70
Gene No.	115313	Strand	-
Start	4645	End	5021
Name	OJ000322_12.0424.C70.o3.np	Method	AAT/NAP
Start	4590	End	5021
GI	4680186	Score	228
Exons	4590..4764, 4995..5021		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	55003	Seq. ID	OJ000322_12.0424.C70
Gene No.	115313	Strand	-
Start	4645	End	5021
Name	OJ000322_12.0424.C70.o3.gs	Method	GENSCAN
Start	4645	End	4958
GI	none	Score	.8
Exons	4645..4731, 4858..4912, 4939..4958		

Seq. No.	55004	Seq. ID	OJ000322_12.0424.C71
Gene No.	115314	Strand	+
Start	227	End	3184
Name	OJ000322_12.0424.C71.o1.gs	Method	GENSCAN
Start	227	End	3184
GI	none	Score	.65
Exons	227..377, 1467..1538, 2882..3103, 3181..3184		

Seq. No.	55004	Seq. ID	OJ000322_12.0424.C71
Gene No.	115314	Strand	+
Start	227	End	3184
Name	OJ000322_12.0424.C71.o1.gp	Method	AAT/GAP
Start	1781	End	1872
GI	uC-osflcyp022c06b2	Score	148
Exons	1781..1872		
GI Descrip.	'5042437/gb|AC007789.1|AC007789 8.0e-25 Oryza sativa BAC T49B20 genomic sequence, complete sequence'		

Seq. No.	55004	Seq. ID	OJ000322_12.0424.C71
Gene No.	115314	Strand	+
Start	227	End	3184

Name	OJ000322_12.0424.C71.o1.np	Method	AAT/NAP
Start	2520	End	2608
GI	7340868	Score	48
Exons	2520..2608		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	55005	Seq. ID	OJ000322_12.0424.C73
Gene No.	115315	Strand	+
Start	1	End	195
Name	OJ000322_12.0424.C73.o1.np	Method	AAT/NAP
Start	1	End	195
GI	6983860	Score	311
Exons	1..195		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	55005	Seq. ID	OJ000322_12.0424.C73
Gene No.	115316	Strand	+
Start	165	End	852
Name	OJ000322_12.0424.C73.o1.gs	Method	GENSCAN
Start	165	End	852
GI	none	Score	.68
Exons	165..202, 586..852		

Seq. No.	55006	Seq. ID	OJ000322_12.0424.C74
Gene No.	115317	Strand	-
Start	19	End	1875
Name	OJ000322_12.0424.C74.o1.gs	Method	GENSCAN
Start	19	End	1875
GI	none	Score	.61
Exons	19..473, 1091..1160, 1658..1875		

Seq. No.	55007	Seq. ID	OJ000322_12.0424.C76
Gene No.	115318	Strand	-
Start	1015	End	1236
Name	OJ000322_12.0424.C76.o1.gs	Method	GENSCAN
Start	1015	End	1236
GI	none	Score	.69
Exons	1015..1236		

Seq. No.	55008	Seq. ID	OJ000322_12.0424.C78
Gene No.	115319	Strand	+
Start	1	End	530
Name	OJ000322_12.0424.C78.o1.np	Method	AAT/NAP
Start	1	End	440
GI	7340909	Score	99
Exons	1..67, 252..440		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	55008	Seq. ID	OJ000322_12.0424.C78
Gene No.	115319	Strand	+
Start	1	End	530
Name	OJ000322_12.0424.C78.o1.gs	Method	GENSCAN
Start	225	End	530
GI	none	Score	.93
Exons	225..345, 448..530		

Seq. No.	55009	Seq. ID	OJ000322_12.0424.C80
Gene No.	115320	Strand	-
Start	1	End	567
Name	OJ000322_12.0424.C80.o1.np	Method	AAT/NAP
Start	1	End	402
GI	7248394	Score	468
Exons	1..402		
GI Descrip.	(AP001389) ESTs C97394(C60113),AU075824(R0165),D38985(R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15O11 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)		

Seq. No.	55009	Seq. ID	OJ000322_12.0424.C80
Gene No.	115320	Strand	-
Start	1	End	567
Name	OJ000322_12.0424.C80.o2.tm	Method	TBLASTX:Maize
Start	1	End	195
GI	none	Score	130
Exons	1..195, 13..195		

Seq. No.	55009	Seq. ID	OJ000322_12.0424.C80
Gene No.	115320	Strand	-
Start	1	End	567
Name	OJ000322_12.0424.C80.o1.gs	Method	GENSCAN
Start	18	End	567
GI	none	Score	.72
Exons	18..567		

Seq. No.	55009	Seq. ID	OJ000322_12.0424.C80
Gene No.	115320	Strand	-
Start	1	End	567
Name	OJ000322_12.0424.C80.o1.tw	Method	TBLASTX:Wheat
Start	111	End	516
GI	none	Score	218
Exons	111..455, 112..465, 115..456, 155..457, 460..516, 470..511, 481..516		

Seq. No.	55009	Seq. ID	OJ000322_12.0424.C80
Gene No.	115320	Strand	-
Start	1	End	567
Name	OJ000322_12.0424.C80.o1.tm	Method	TBLASTX:Maize
Start	197	End	462
GI	none	Score	287
Exons	197..457, 197..442, 199..462		

Seq. No.	55010	Seq. ID	OJ000322_12.0424.C83
Gene No.	115321	Strand	-
Start	1	End	1183
Name	OJ000322_12.0424.C83.o1.np	Method	AAT/NAP
Start	1	End	1183
GI	5852181	Score	126
Exons	1..23, 931..1183		
GI Descrip.	(AL117265) zhb0011.1 [Oryza sativa]		

Seq. No.	55010	Seq. ID	OJ000322_12.0424.C83
Gene No.	115321	Strand	-

Start	1	End	1183
Name	OJ000322_12.0424.C83.o1.gs	Method	GENSCAN
Start	637	End	1089
GI	none	Score	.85
Exons	637..761, 959..1089		

Seq. No.	55011	Seq. ID	OJ000322_12.0424.C86
Gene No.	115322	Strand	-
Start	1028	End	3649
Name	OJ000322_12.0424.C86.o1.gp	Method	AAT/GAP
Start	675	End	2382
GI	2265_1.R1084	Score	2691
Exons	675..1348, 1560..1803, 1904..2382		
GI Descrip.	'542200/pir||S41890 4.0e-86 hypothetical protein - garden asparagus >gi_452714_emb_CAA54526_ (X77320) unknown [Asparagus officinalis]'		

Seq. No.	55011	Seq. ID	OJ000322_12.0424.C86
Gene No.	115322	Strand	-
Start	1028	End	3649
Name	OJ000322_12.0424.C86.o1.gs	Method	GENSCAN
Start	1028	End	3649
GI	none	Score	.61
Exons	1028..1348, 1489..1539, 1560..1803, 1904..2154, 2741..2824, 3224..3649		

Seq. No.	55011	Seq. ID	OJ000322_12.0424.C86
Gene No.	115322	Strand	-
Start	1028	End	3649
Name	OJ000322_12.0424.C86.o1.np	Method	AAT/NAP
Start	1031	End	2115
GI	542200	Score	829
Exons	1031..1348, 1560..1803, 1904..2115		
GI Descrip.	hypothetical protein - garden asparagus gi|452714|emb|CAA54526| (X77320) unknown [Asparagus officinalis]		

Seq. No.	55011	Seq. ID	OJ000322_12.0424.C86
Gene No.	115322	Strand	-
Start	1028	End	3649
Name	OJ000322_12.0424.C86.o1.tm	Method	TBLASTX:Maize
Start	1053	End	1713
GI	none	Score	348
Exons	1053..1241, 1073..1366, 1074..1334, 1560..1712, 1561..1713		

Seq. No.	55011	Seq. ID	OJ000322_12.0424.C86
Gene No.	115322	Strand	-
Start	1028	End	3649
Name	OJ000322_12.0424.C86.o1.tc	Method	TBLASTX:Cress
Start	1073	End	2127
GI	none	Score	300
Exons	1073..1345, 1074..1343, 1109..1348, 1621..1707, 1626..1715, 1686..1805, 1723..1806, 1942..2043, 2053..2127		

Seq. No.	55011	Seq. ID	OJ000322_12.0424.C86
Gene No.	115322	Strand	-
Start	1028	End	3649
Name	OJ000322_12.0424.C86.o1.ts	Method	TBLASTX:Soybean

Start	1073	End	1742
GI	none	Score	316
Exons	1073..1372, 1074..1343, 1085..1348, 1560..1742, 1564..1707		

Seq. No.	55011	Seq. ID	OJ000322_12.0424.C86
Gene No.	115322	Strand	-
Start	1028	End	3649
Name	OJ000322_12.0424.C86.o1.tw	Method	TBLASTX:Wheat
Start	1656	End	2120
GI	none	Score	189
Exons	1656..1817, 1657..1818, 1912..2118, 1913..2119, 2033..2119, 2052..2120		

Seq. No.	55011	Seq. ID	OJ000322_12.0424.C86
Gene No.	115322	Strand	-
Start	1028	End	3649
Name	OJ000322_12.0424.C86.o2.tm	Method	TBLASTX:Maize
Start	1719	End	2118
GI	none	Score	86
Exons	1719..1808, 1719..1805, 1942..2055, 1943..2029, 2035..2118, 2069..2116		

Seq. No.	55012	Seq. ID	OJ000322_12.0424.C87
Gene No.	115323	Strand	-
Start	843	End	2349
Name	OJ000322_12.0424.C87.o1.np	Method	AAT/NAP
Start	812	End	2349
GI	6539553	Score	2510
Exons	812..2349		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi|6539590|dbj|BAA88206.1| (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	55012	Seq. ID	OJ000322_12.0424.C87
Gene No.	115323	Strand	-
Start	843	End	2349
Name	OJ000322_12.0424.C87.o1.gs	Method	GENSCAN
Start	843	End	2279
GI	none	Score	.97
Exons	843..2279		

Seq. No.	55012	Seq. ID	OJ000322_12.0424.C87
Gene No.	115323	Strand	-
Start	843	End	2349
Name	OJ000322_12.0424.C87.o1.tw	Method	TBLASTX:Wheat
Start	949	End	1425
GI	none	Score	417
Exons	949..1335, 950..1330, 987..1334, 1344..1424, 1350..1424, 1354..1425		

Seq. No.	55012	Seq. ID	OJ000322_12.0424.C87
Gene No.	115323	Strand	-
Start	843	End	2349
Name	OJ000322_12.0424.C87.o3.ts	Method	TBLASTX:Soybean
Start	1062	End	1430
GI	none	Score	62

Exons	1062..1286, 1102..1278, 1305..1430, 1305..1430		
Seq. No.	55012	Seq. ID	OJ000322_12.0424.C87
Gene No.	115323	Strand	-
Start	843	End	2349
Name	OJ000322_12.0424.C87.o2.tm	Method	TBLASTX:Maize
Start	1282	End	1620
GI	none	Score	200
Exons	1282..1620, 1293..1619		
Seq. No.	55012	Seq. ID	OJ000322_12.0424.C87
Gene No.	115323	Strand	-
Start	843	End	2349
Name	OJ000322_12.0424.C87.o2.ts	Method	TBLASTX:Soybean
Start	1431	End	1790
GI	none	Score	121
Exons	1431..1790, 1576..1776		
Seq. No.	55012	Seq. ID	OJ000322_12.0424.C87
Gene No.	115323	Strand	-
Start	843	End	2349
Name	OJ000322_12.0424.C87.o2.tw	Method	TBLASTX:Wheat
Start	1629	End	2174
GI	none	Score	50
Exons	1629..1835, 1639..1770, 1830..2174, 1854..2027		
Seq. No.	55012	Seq. ID	OJ000322_12.0424.C87
Gene No.	115323	Strand	-
Start	843	End	2349
Name	OJ000322_12.0424.C87.o1.tm	Method	TBLASTX:Maize
Start	1710	End	2174
GI	none	Score	83
Exons	1710..2174, 1857..2159		
Seq. No.	55012	Seq. ID	OJ000322_12.0424.C87
Gene No.	115323	Strand	-
Start	843	End	2349
Name	OJ000322_12.0424.C87.o1.ts	Method	TBLASTX:Soybean
Start	1845	End	2294
GI	5509260	Score	58
Exons	1845..2294, 1864..1923, 1996..2091		
GI Descrip.	-		
Seq. No.	55012	Seq. ID	OJ000322_12.0424.C87
Gene No.	115323	Strand	-
Start	843	End	2349
Name	OJ000322_12.0424.C87.o1.tc	Method	TBLASTX:Cress
Start	1956	End	2216
GI	none	Score	58
Exons	1956..2216, 2140..2214		
Seq. No.	55012	Seq. ID	OJ000322_12.0424.C87
Gene No.	115323	Strand	-
Start	843	End	2349
Name	OJ000322_12.0424.C87.o3.tw	Method	TBLASTX:Wheat
Start	2229	End	2349
GI	none	Score	86

Exons	2229..2339, 2229..2348, 2230..2349		
Seq. No.	55013	Seq. ID	OJ000322_12.0424.C90
Gene No.	115324	Strand	-
Start	1	End	105
Name	OJ000322_12.0424.C90.o1.gp	Method	AAT/GAP
Start	1	End	105
GI	LIB3474-009-P1-K1-F11	Score	175
Exons	1..105		
GI Descrip.	'4455244/emb|CAB36743.1| 6.0e-11 (AL035523) MtN3-like protein [Arabidopsis thaliana]'		
Seq. No.	55014	Seq. ID	OJ000322_12.0424.C93
Gene No.	115325	Strand	-
Start	1	End	1497
Name	OJ000322_12.0424.C93.o1.np	Method	AAT/NAP
Start	1	End	1148
GI	6539553	Score	1827
Exons	1..1148		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi|6539590|dbj|BAA88206.1| (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		
Seq. No.	55014	Seq. ID	OJ000322_12.0424.C93
Gene No.	115325	Strand	-
Start	1	End	1497
Name	OJ000322_12.0424.C93.o2.tm	Method	TBLASTX:Maize
Start	1	End	195
GI	none	Score	226
Exons	1..168, 1..195, 2..187		
Seq. No.	55014	Seq. ID	OJ000322_12.0424.C93
Gene No.	115325	Strand	-
Start	1	End	1497
Name	OJ000322_12.0424.C93.o1.gs	Method	GENSCAN
Start	426	End	1497
GI	none	Score	.87
Exons	426..1040, 1342..1497		
Seq. No.	55014	Seq. ID	OJ000322_12.0424.C93
Gene No.	115325	Strand	-
Start	1	End	1497
Name	OJ000322_12.0424.C93.o1.tm	Method	TBLASTX:Maize
Start	706	End	1019
GI	none	Score	273
Exons	706..1011, 708..1019		
Seq. No.	55014	Seq. ID	OJ000322_12.0424.C93
Gene No.	115325	Strand	-
Start	1	End	1497
Name	OJ000322_12.0424.C93.o1.tw	Method	TBLASTX:Wheat
Start	767	End	1154
GI	none	Score	185
Exons	767..919, 768..1154, 769..1038, 771..1094, 1078..1143		
Seq. No.	55015	Seq. ID	OJ000322_12.0424.C94

Gene No.	115326	Strand	+
Start	1	End	874
Name	OJ000322_12.0424.C94.o1.np	Method	AAT/NAP
Start	1	End	874
GI	7228442	Score	1519
Exons	1..874		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog. (AC003981) [Oryza sativa]		

Seq. No.	55015	Seq. ID	OJ000322_12.0424.C94
Gene No.	115326	Strand	+
Start	1	End	874
Name	OJ000322_12.0424.C94.o1.tw	Method	TBLASTX:Wheat
Start	14	End	172
GI	none	Score	203
Exons	14..172, 19..111, 23..142		

Seq. No.	55015	Seq. ID	OJ000322_12.0424.C94
Gene No.	115326	Strand	+
Start	1	End	874
Name	OJ000322_12.0424.C94.o1.gs	Method	GENSCAN
Start	41	End	615
GI	none	Score	.69
Exons	41..615		

Seq. No.	55016	Seq. ID	OJ000322_12.0424.C95
Gene No.	115327	Strand	+
Start	1	End	3145
Name	OJ000322_12.0424.C95.o1.np	Method	AAT/NAP
Start	1	End	2588
GI	5441880	Score	2119
Exons	1..416, 1005..1303, 1380..1638, 1883..1956, 1993..2016, 2107..2238, 2354..2588		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	55016	Seq. ID	OJ000322_12.0424.C95
Gene No.	115327	Strand	+
Start	1	End	3145
Name	OJ000322_12.0424.C95.o1.gs	Method	GENSCAN
Start	80	End	2867
GI	none	Score	.74
Exons	80..282, 382..416, 501..911, 1005..1303, 1380..1638, 1731..1913, 1979..2016, 2107..2238, 2302..2349, 2354..2556, 2707..2867		

Seq. No.	55016	Seq. ID	OJ000322_12.0424.C95
Gene No.	115327	Strand	+
Start	1	End	3145
Name	OJ000322_12.0424.C95.o1.gp	Method	AAT/GAP
Start	1131	End	1630
GI	LIB3475-007-P1-K1-G8	Score	789
Exons	1131..1303, 1380..1630		
GI Descrip.	'5441880/dbj|BAA82378.1| 5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]'		

Seq. No.	55016	Seq. ID	OJ000322_12.0424.C95
Gene No.	115327	Strand	+
Start	1	End	3145
Name	OJ000322_12.0424.C95.o2.gp	Method	AAT/GAP
Start	2692	End	3145
GI	LIB3431-045-P1-N1-A10	Score	872
Exons	2692..3145		
GI Descrip.	'5441876/dbj|AP000367.1|AP000367 0.0e+00 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig b)'		

Seq. No.	55016	Seq. ID	OJ000322_12.0424.C95
Gene No.	115327	Strand	+
Start	1	End	3145
Name	OJ000322_12.0424.C95.o2.np	Method	AAT/NAP
Start	2706	End	2891
GI	7228442	Score	236
Exons	2706..2891		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog. (AC003981) [Oryza sativa]		

Seq. No.	55017	Seq. ID	OJ000322_12.0424.C96
Gene No.	115328	Strand	+
Start	870	End	5444
Name	OJ000322_12.0424.C96.o1.gs	Method	GENSCAN
Start	870	End	2520
GI	none	Score	.77
Exons	870..1291, 2472..2520		

Seq. No.	55017	Seq. ID	OJ000322_12.0424.C96
Gene No.	115328	Strand	+
Start	870	End	5444
Name	OJ000322_12.0424.C96.o1.np	Method	AAT/NAP
Start	870	End	5181
GI	7021733	Score	390
Exons	870..993, 1120..1291, 4956..5181		
GI Descrip.	(AC024081) unknown protein [Arabidopsis thaliana]		

Seq. No.	55017	Seq. ID	OJ000322_12.0424.C96
Gene No.	115328	Strand	+
Start	870	End	5444
Name	OJ000322_12.0424.C96.o1.ts	Method	TBLASTX:Soybean
Start	1086	End	5163
GI	none	Score	201
Exons	1086..1292, 1124..1306, 4290..4376, 4963..5163, 4968..5078		

Seq. No.	55017	Seq. ID	OJ000322_12.0424.C96
Gene No.	115328	Strand	+
Start	870	End	5444
Name	OJ000322_12.0424.C96.o1.tc	Method	TBLASTX:Cress
Start	1122	End	5175
GI	none	Score	194
Exons	1122..1292, 1124..1291, 4200..4376, 4963..5025, 4968..5027, 5038..5175		

Seq. No.	55017	Seq. ID	OJ000322_12.0424.C96

Gene No.	115328	Strand	+
Start	870	End	5444
Name	OJ000322_12.0424.C96.o2.gs	Method	GENSCAN
Start	3992	End	5214
GI	none	Score	.96
Exons	3992..4081, 4167..4369, 4956..5214		

Seq. No.	55017	Seq. ID	OJ000322_12.0424.C96
Gene No.	115328	Strand	+
Start	870	End	5444
Name	OJ000322_12.0424.C96.o1.gp	Method	AAT/GAP
Start	5092	End	5444
GI	3762250	Score	662
Exons	5092..5444		

Seq. No.	55018	Seq. ID	OJ000322_12.0424.C97
Gene No.	115329	Strand	+
Start	918	End	4146
Name	OJ000322_12.0424.C97.o2.np	Method	AAT/NAP
Start	918	End	4146
GI	7021732	Score	492
Exons	918..942, 2699..3320, 3351..3401, 3432..3637, 4102..4146		
GI Descrip.	(AC024081) unknown protein [Arabidopsis thaliana]		

Seq. No.	55018	Seq. ID	OJ000322_12.0424.C97
Gene No.	115329	Strand	+
Start	918	End	4146
Name	OJ000322_12.0424.C97.o1.np	Method	AAT/NAP
Start	1172	End	1260
GI	5852084	Score	81
Exons	1172..1260		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	55018	Seq. ID	OJ000322_12.0424.C97
Gene No.	115329	Strand	+
Start	918	End	4146
Name	OJ000322_12.0424.C97.o1.tm	Method	TBLASTX:Maize
Start	3204	End	3371
GI	none	Score	188
Exons	3204..3371, 3207..3371		

Seq. No.	55019	Seq. ID	OJ000322_12.0424.C100
Gene No.	115330	Strand	-
Start	368	End	802
Name	OJ000322_12.0424.C100.o1.gs	Method	GENSCAN
Start	368	End	802
GI	none	Score	.48
Exons	368..422, 705..802		

Seq. No.	55020	Seq. ID	OJ000322_04.0418.C2
Gene No.	115331	Strand	+
Start	1	End	1582
Name	OJ000322_04.0418.C2.o1.np	Method	AAT/NAP
Start	1	End	956
GI	7487703	Score	467
Exons	1..69, 199..310, 401..607, 790..956		
GI Descrip.	hypothetical protein T5J17.20 - Arabidopsis thaliana		

gi|4490736|emb|CAB38898.1| (AL035708) putative protein [Arabidopsis thaliana] gi|7271040|emb|CAB80648.1| (AL161596) putative protein [Arabidopsis thaliana]

Seq. No.	55020	Seq. ID	OJ000322_04.0418.C2
Gene No.	115331	Strand	+
Start	1	End	1582
Name	OJ000322_04.0418.C2.o1.gs	Method	GENSCAN
Start	172	End	1582
GI	none	Score	.74
Exons	172..310, 401..607, 1212..1315, 1496..1582		

Seq. No.	55020	Seq. ID	OJ000322_04.0418.C2
Gene No.	115332	Strand	+
Start	4464	End	7609
Name	OJ000322_04.0418.C2.o3.gs	Method	GENSCAN
Start	4464	End	7499
GI	none	Score	.45
Exons	4464..4502, 4542..4802, 4894..5190, 5280..5447, 5618..5785, 5878..5958, 6069..6135, 6551..6648, 6890..6962, 7051..7121, 7238..7287, 7370..7499		

Seq. No.	55020	Seq. ID	OJ000322_04.0418.C2
Gene No.	115332	Strand	+
Start	4464	End	7609
Name	OJ000322_04.0418.C2.o2.np	Method	AAT/NAP
Start	4513	End	7609
GI	2062155	Score	863
Exons	4513..4802, 4894..5190, 5280..5447, 5618..5785, 5878..5958, 6069..6135, 6551..6648, 6981..7121, 7238..7287, 7370..7482, 7566..7609		
GI Descrip.	(AC001645) mitochondrial processing peptidase alpha subunit precusor isolog [Arabidopsis thaliana]		

Seq. No.	55020	Seq. ID	OJ000322_04.0418.C2
Gene No.	115332	Strand	+
Start	4464	End	7609
Name	OJ000322_04.0418.C2.o1.gp	Method	AAT/GAP
Start	5358	End	6945
GI	61106_1.R1084	Score	1008
Exons	5358..5447, 5618..5785, 5878..5958, 6069..6135, 6551..6648, 6890..6945		
GI Descrip.	'266567/sp|P29677|MPPA_SOLTU 4.0e-48 MITOCHONDRIAL PROCESSING PEPTIDASE ALPHA SUBUNIT PRECURSOR (ALPHA-MPP) (UBIQUINOL-CYTOCHROME C REDUCTASE SUBUNIT II) >gi_421956_pir__S23558 mitochondrial processing peptidase (EC 3.4.99.41) alpha chain precursor - potato >gi_21493_emb_CAA46990_ (X66284) mitochondrial processing peptidase [Solanum tuberosum]'		

Seq. No.	55020	Seq. ID	OJ000322_04.0418.C2
Gene No.	115333	Strand	+
Start	7602	End	7954
Name	OJ000322_04.0418.C2.o2.gp	Method	AAT/GAP
Start	7602	End	7954
GI	4716805	Score	615
Exons	7602..7954		

Seq. No.	55020	Seq. ID	OJ000322_04.0418.C2
Gene No.	115334	Strand	+
Start	8112	End	8753
Name	OJ000322_04.0418.C2.o3.gp	Method	AAT/GAP
Start	8112	End	8753
GI	34745_1.R1084	Score	1213
Exons	8112..8753		
GI Descrip.	'2529662 8.0e-16 (AC002535) putative small nuclear ribonucleoprotein, Sm D2 [Arabidopsis thaliana] >gi_3738278 (AC005309) putative small nuclear ribonucleoprotein, Sm D2 [Arabidopsis thaliana]'		

Seq. No.	55020	Seq. ID	OJ000322_04.0418.C2
Gene No.	115335	Strand	+
Start	13017	End	13068
Name	OJ000322_04.0418.C2.o2.tm	Method	TBLASTX:Maize
Start	162	End	1305
GI	none	Score	151
Exons	162..311, 172..294, 214..342, 399..593, 400..594, 404..595, 771..956, 782..943, 787..945, 1099..1152, 1100..1150, 1234..1305, 1235..1291		

Seq. No.	55020	Seq. ID	OJ000322_04.0418.C2
Gene No.	115335	Strand	+
Start	13017	End	13068
Name	OJ000322_04.0418.C2.o3.ts	Method	TBLASTX:Soybean
Start	403	End	609
GI	none	Score	119
Exons	403..489, 414..488, 481..579, 489..578, 489..608, 490..609		

Seq. No.	55020	Seq. ID	OJ000322_04.0418.C2
Gene No.	115335	Strand	+
Start	13017	End	13068
Name	OJ000322_04.0418.C2.o1.tc	Method	TBLASTX:Cress
Start	4638	End	5438
GI	none	Score	101
Exons	4638..4802, 4897..5193, 4921..5217, 5298..5438, 5315..5407		

Seq. No.	55020	Seq. ID	OJ000322_04.0418.C2
Gene No.	115335	Strand	+
Start	13017	End	13068
Name	OJ000322_04.0418.C2.o1.tm	Method	TBLASTX:Maize
Start	4692	End	7490
GI	none	Score	109
Exons	4692..4793, 4888..5193, 4944..5192, 5277..5441, 5618..5782, 5626..5811, 5880..5954, 5881..5976, 6068..6166, 6552..6647, 6553..6648, 6869..6961, 6895..6957, 7049..7189, 7050..7127, 7240..7290, 7241..7288, 7293..7490, 7368..7481		

Seq. No.	55020	Seq. ID	OJ000322_04.0418.C2
Gene No.	115335	Strand	+
Start	13017	End	13068
Name	OJ000322_04.0418.C2.o1.ts	Method	TBLASTX:Soybean
Start	4692	End	5441
GI	none	Score	99
Exons	4692..4802, 4897..5193, 4944..5180, 5074..5190, 5292..5441		

Seq. No.	55020	Seq. ID	OJ000322_04.0418.C2
Gene No.	115335	Strand	+
Start	13017	End	13068
Name	OJ000322_04.0418.C2.o2.ts	Method	TBLASTX:Soybean
Start	5611	End	6136
GI	none	Score	157
Exons	5611..5811, 5618..5797, 5877..5975, 5877..5951, 5881..5976, 6067..6132, 6068..6136		

Seq. No.	55020	Seq. ID	OJ000322_04.0418.C2
Gene No.	115335	Strand	+
Start	13017	End	13068
Name	OJ000322_04.0418.C2.o4.ts	Method	TBLASTX:Soybean
Start	6553	End	7469
GI	none	Score	91
Exons	6553..6648, 6895..6966, 6896..6961, 6898..6966, 7049..7183, 7050..7127, 7235..7288, 7240..7290, 7367..7468, 7368..7469		

Seq. No.	55020	Seq. ID	OJ000322_04.0418.C2
Gene No.	115335	Strand	+
Start	13017	End	13068
Name	OJ000322_04.0418.C2.o3.tm	Method	TBLASTX:Maize
Start	8390	End	9361
GI	none	Score	63
Exons	8390..8455, 8391..8480, 8398..8475, 8450..8503, 8451..8504, 8457..8594, 8466..8663, 8561..8740, 8561..8686, 8643..8738, 8758..8853, 8759..8854, 8782..8901, 8924..9049, 8969..9073, 9101..9187, 9103..9168, 9105..9188, 9118..9189, 9275..9361, 9286..9354, 9287..9355		

Seq. No.	55020	Seq. ID	OJ000322_04.0418.C2
Gene No.	115335	Strand	+
Start	13017	End	13068
Name	OJ000322_04.0418.C2.o5.ts	Method	TBLASTX:Soybean
Start	10144	End	11159
GI	none	Score	39
Exons	10144..10191, 10145..10201, 10281..10373, 10286..10372, 10457..10558, 10458..10535, 10924..10986, 11112..11159		

Seq. No.	55020	Seq. ID	OJ000322_04.0418.C2
Gene No.	115335	Strand	+
Start	13017	End	13068
Name	OJ000322_04.0418.C2.o4.tm	Method	TBLASTX:Maize
Start	10145	End	11210
GI	none	Score	79
Exons	10145..10201, 10145..10201, 10281..10427, 10282..10374, 10286..10378, 10451..10540, 10457..10558, 10458..10553, 10459..10554, 10924..10986, 10937..11002, 10939..11013, 11103..11210, 11113..11199		

Seq. No.	55020	Seq. ID	OJ000322_04.0418.C2
Gene No.	115335	Strand	+
Start	13017	End	13068
Name	OJ000322_04.0418.C2.o2.tc	Method	TBLASTX:Cress
Start	10281	End	10558
GI	none	Score	67

Exons	10281..10400, 10286..10372, 10457..10558, 10458..10541		
Seq. No.	55020	Seq. ID	OJ000322_04.0418.C2
Gene No.	115335	Strand	+
Start	13017	End	13068
Name	OJ000322_04.0418.C2.o1.tw	Method	TBLASTX:Wheat
Start	10301	End	11002
GI	none	Score	84
Exons	10301..10375, 10301..10378, 10305..10400, 10457..10558, 10458..10562, 10921..10986, 10937..11002		
Seq. No.	55020	Seq. ID	OJ000322_04.0418.C2
Gene No.	115335	Strand	+
Start	13017	End	13068
Name	OJ000322_04.0418.C2.o4.gp	Method	AAT/GAP
Start	13017	End	13068
GI	33042_1.R1084	Score	62
Exons	13017..13068		
GI Descrip.	'6006892/gb|AAF00667.1|AC008153_19 2.0e-57 (AC008153) unknown protein [Arabidopsis thaliana]'		
Seq. No.	55021	Seq. ID	OJ000322_04.0418.C3
Gene No.	115336	Strand	+
Start	2034	End	2397
Name	OJ000322_04.0418.C3.o1.np	Method	AAT/NAP
Start	2034	End	2397
GI	480566	Score	79
Exons	2034..2219, 2375..2397		
GI Descrip.	beta-fructofuranosidase (EC 3.2.1.26) - potato gi|397631|emb|CAA80358| (Z22645) beta-fructofuranosidase [Solanum tuberosum]		
Seq. No.	55021	Seq. ID	OJ000322_04.0418.C3
Gene No.	115336	Strand	+
Start	2034	End	2397
Name	OJ000322_04.0418.C3.o1.tm	Method	TBLASTX:Maize
Start	2048	End	2223
GI	none	Score	44
Exons	2048..2092, 2108..2221, 2109..2222, 2110..2223, 2110..2223		
Seq. No.	55021	Seq. ID	OJ000322_04.0418.C3
Gene No.	115336	Strand	+
Start	2034	End	2397
Name	OJ000322_04.0418.C3.o1.ts	Method	TBLASTX:Soybean
Start	2048	End	2218
GI	none	Score	44
Exons	2048..2092, 2108..2218, 2109..2216, 2110..2217		
Seq. No.	55022	Seq. ID	OJ000322_04.0418.C4
Gene No.	115337	Strand	+
Start	122	End	3845
Name	OJ000322_04.0418.C4.o1.gs	Method	GENSCAN
Start	122	End	3845
GI	none	Score	.7
Exons	122..453, 764..976, 1909..2150, 2360..2453, 2559..2729, 3025..3202, 3238..3845		

Seq. No.	55022	Seq. ID	OJ000322_04.0418.C4
Gene No.	115337	Strand	+
Start	122	End	3845
Name	OJ000322_04.0418.C4.o1.np	Method	AAT/NAP
Start	259	End	2759
GI	7435481	Score	1820
Exons	259..976, 1663..1825, 1913..2150, 2360..2453, 2559..2759		
GI Descrip.	beta-fructofuranosidase (EC 3.2.1.26), cell wall - wheat (fragment) gi|3342242|gb|AAC96066.1| (AF030421) cell wall invertase; beta-fructofuranosidase; fructosidase [Triticum aestivum]		

Seq. No.	55022	Seq. ID	OJ000322_04.0418.C4
Gene No.	115338	Strand	+
Start	9088	End	10578
Name	OJ000322_04.0418.C4.o3.gs	Method	GENSCAN
Start	9088	End	10578
GI	none	Score	.99
Exons	9088..9571, 9584..10578		

Seq. No.	55022	Seq. ID	OJ000322_04.0418.C4
Gene No.	115339	Strand	-
Start	4813	End	5560
Name	OJ000322_04.0418.C4.o2.gs	Method	GENSCAN
Start	4813	End	5560
GI	none	Score	.53
Exons	4813..5141, 5503..5560		

Seq. No.	55022	Seq. ID	OJ000322_04.0418.C4
Gene No.	115340	Strand	-
Start	9161	End	10683
Name	OJ000322_04.0418.C4.o2.np	Method	AAT/NAP
Start	9161	End	10683
GI	4678208	Score	1455
Exons	9161..10683		
GI Descrip.	(AC007134) putative sugar transporter [Arabidopsis thaliana]		

Seq. No.	55022	Seq. ID	OJ000322_04.0418.C4
Gene No.	115341	Strand	-
Start	11466	End	11808
Name	OJ000322_04.0418.C4.o1.tc	Method	TBLASTX:Cress
Start	115	End	2735
GI	none	Score	410
Exons	115..234, 117..455, 121..453, 463..708, 481..666, 722..751, 726..752, 758..811, 766..972, 842..973, 1657..1761, 1665..1760, 1906..1974, 1981..2115, 2013..2096, 2092..2160, 2558..2626, 2559..2735		

Seq. No.	55022	Seq. ID	OJ000322_04.0418.C4
Gene No.	115341	Strand	-
Start	11466	End	11808
Name	OJ000322_04.0418.C4.o3.tw	Method	TBLASTX:Wheat
Start	117	End	345
GI	none	Score	119
Exons	117..191, 121..192, 186..344, 187..345		

Seq. No.	55022	Seq. ID	OJ000322_04.0418.C4

Gene No.	115341	Strand	-
Start	11466	End	11808
Name	OJ000322_04.0418.C4.o1.tm	Method	TBLASTX:Maize
Start	120	End	2752
GI	none	Score	942
Exons	120..728, 121..726, 126..728, 332..730, 746..976, 746..976, 757..981, 835..978, 1656..1823, 1657..1824, 1905..2033, 1906..2034, 1907..2050, 2031..2225, 2032..2133, 2101..2160, 2352..2438, 2360..2431, 2558..2641, 2559..2642, 2585..2752, 2586..2735		

Seq. No.	55022	Seq. ID	OJ000322_04.0418.C4
Gene No.	115341	Strand	-
Start	11466	End	11808
Name	OJ000322_04.0418.C4.o2.ts	Method	TBLASTX:Soybean
Start	120	End	2752
GI	none	Score	942
Exons	120..728, 121..726, 126..728, 332..730, 746..976, 746..976, 757..981, 835..978, 1656..1823, 1657..1824, 1905..2033, 1906..2034, 2031..2225, 2032..2133, 2101..2160, 2352..2438, 2360..2431, 2558..2641, 2559..2642, 2585..2752, 2586..2735		

Seq. No.	55022	Seq. ID	OJ000322_04.0418.C4
Gene No.	115341	Strand	-
Start	11466	End	11808
Name	OJ000322_04.0418.C4.o5.tm	Method	TBLASTX:Maize
Start	3392	End	3821
GI	none	Score	259
Exons	3392..3547, 3393..3821		

Seq. No.	55022	Seq. ID	OJ000322_04.0418.C4
Gene No.	115341	Strand	-
Start	11466	End	11808
Name	OJ000322_04.0418.C4.o2.tm	Method	TBLASTX:Maize
Start	9223	End	10114
GI	none	Score	68
Exons	9223..9300, 9223..9534, 9302..9532, 9562..9897, 9563..9898, 9901..10113, 9902..10114		

Seq. No.	55022	Seq. ID	OJ000322_04.0418.C4
Gene No.	115341	Strand	-
Start	11466	End	11808
Name	OJ000322_04.0418.C4.o4.tc	Method	TBLASTX:Cress
Start	9223	End	9444
GI	none	Score	60
Exons	9223..9444, 9290..9388		

Seq. No.	55022	Seq. ID	OJ000322_04.0418.C4
Gene No.	115341	Strand	-
Start	11466	End	11808
Name	OJ000322_04.0418.C4.o1.ts	Method	TBLASTX:Soybean
Start	9235	End	10557
GI	none	Score	396
Exons	9235..9882, 9302..9883, 9889..10557, 9890..10543		

Seq. No.	55022	Seq. ID	OJ000322_04.0418.C4
Gene No.	115341	Strand	-

Start	11466	End	11808
Name	OJ000322_04.0418.C4.o2.tc	Method	TBLASTX:Cress
Start	9718	End	10176
GI	none	Score	143
Exons	9718..10176, 9743..9946, 9907..10059, 10016..10129		

Seq. No.	55022	Seq. ID	OJ000322_04.0418.C4
Gene No.	115341	Strand	-
Start	11466	End	11808
Name	OJ000322_04.0418.C4.o1.tw	Method	TBLASTX:Wheat
Start	9902	End	10186
GI	none	Score	198
Exons	9902..10186, 9904..10185		

Seq. No.	55022	Seq. ID	OJ000322_04.0418.C4
Gene No.	115341	Strand	-
Start	11466	End	11808
Name	OJ000322_04.0418.C4.o3.tm	Method	TBLASTX:Maize
Start	10114	End	10557
GI	none	Score	393
Exons	10114..10557, 10115..10543		

Seq. No.	55022	Seq. ID	OJ000322_04.0418.C4
Gene No.	115341	Strand	-
Start	11466	End	11808
Name	OJ000322_04.0418.C4.o5.tc	Method	TBLASTX:Cress
Start	10298	End	10543
GI	none	Score	152
Exons	10298..10543, 10300..10542		

Seq. No.	55022	Seq. ID	OJ000322_04.0418.C4
Gene No.	115341	Strand	-
Start	11466	End	11808
Name	OJ000322_04.0418.C4.o1.gp	Method	AAT/GAP
Start	11245	End	11656
GI	4716889	Score	502
Exons	11245..11656		
GI Descrip.	2529662 8.0e-16 (AC002535) putative small nuclear ribonucleoprotein, Sm D2 [Arabidopsis thaliana] >gi_3738278 (AC005309) putative small nuclear ribonucleoprotein, Sm D2 [Arabidopsis thaliana]		

Seq. No.	55022	Seq. ID	OJ000322_04.0418.C4
Gene No.	115341	Strand	-
Start	11466	End	11808
Name	OJ000322_04.0418.C4.o2.tw	Method	TBLASTX:Wheat
Start	11463	End	11782
GI	none	Score	202
Exons	11463..11579, 11464..11583, 11464..11583, 11465..11584, 11465..11584, 11639..11782, 11672..11779		

Seq. No.	55022	Seq. ID	OJ000322_04.0418.C4
Gene No.	115341	Strand	-
Start	11466	End	11808
Name	OJ000322_04.0418.C4.o4.tm	Method	TBLASTX:Maize
Start	11463	End	11780
GI	none	Score	202

Exons 11463..11579, 11464..11583, 11465..11584, 11672..11779, 11673..11780

Seq. No.	55022	Seq. ID	OJ000322_04.0418.C4
Gene No.	115341	Strand	-
Start	11466	End	11808
Name	OJ000322_04.0418.C4.o3.ts	Method	TBLASTX:Soybean
Start	11464	End	11786
GI	none	Score	174

Exons 11464..11583, 11466..11579, 11672..11779, 11673..11783, 11673..11786

Seq. No.	55022	Seq. ID	OJ000322_04.0418.C4
Gene No.	115341	Strand	-
Start	11466	End	11808
Name	OJ000322_04.0418.C4.o3.tc	Method	TBLASTX:Cress
Start	11466	End	11808
GI	none	Score	73

Exons 11466..11570, 11466..11579, 11467..11583, 11672..11779, 11673..11783, 11674..11808

Seq. No.	55022	Seq. ID	OJ000322_04.0418.C4
Gene No.	115341	Strand	-
Start	11466	End	11808
Name	OJ000322_04.0418.C4.o4.gs	Method	GENSCAN
Start	11466	End	11779
GI	none	Score	.99

Exons 11466..11582, 11675..11779

Seq. No.	55022	Seq. ID	OJ000322_04.0418.C4
Gene No.	115341	Strand	-
Start	11466	End	11808
Name	OJ000322_04.0418.C4.o3.np	Method	AAT/NAP
Start	11469	End	11779
GI	7488341	Score	303

Exons 11469..11582, 11675..11779

GI Descrip. small nuclear ribonucleoprotein T30B22.5 - Arabidopsis thaliana gi|3738278|gb|AAC63620.1| (AC005309) putative small nuclear ribonucleoprotein D2 [Arabidopsis thaliana] gi|7362764|emb|CAB83134.1| (AL162651) small nuclear ribonucleoprotein-like protein [Arabidopsis thaliana]

Seq. No.	55023	Seq. ID	OJ000322_04.0418.C5
Gene No.	115342	Strand	+
Start	86	End	745
Name	OJ000322_04.0418.C5.o1.gs	Method	GENSCAN
Start	86	End	745
GI	none	Score	.69

Exons 86..251, 306..745

Seq. No.	55023	Seq. ID	OJ000322_04.0418.C5
Gene No.	115343	Strand	+
Start	2728	End	6410
Name	OJ000322_04.0418.C5.o1.np	Method	AAT/NAP
Start	2258	End	6410
GI	7486242	Score	313

Exons 2258..2325, 2718..3035, 3119..3370, 4030..4268, 4460..4652,

	4894..5662, 5766..5835, 5933..5982, 6081..6179, 6336..6410
GI Descrip.	hypothetical protein F27F23.19 - Arabidopsis thaliana gi|3135269|gb|AAC16469.1| (AC003058) unknown protein [Arabidopsis thaliana]

Seq. No.	55023	Seq. ID	OJ000322_04.0418.C5
Gene No.	115343	Strand	+
Start	2728	End	6410
Name	OJ000322_04.0418.C5.o2.gs	Method	GENSCAN
Start	2728	End	6179
GI	none	Score	.67
Exons	2728..3035, 3119..3359, 3980..4281, 4476..4652, 4897..5114, 5349..5661, 5741..5814, 5933..5995, 6091..6179		

Seq. No.	55023	Seq. ID	OJ000322_04.0418.C5
Gene No.	115343	Strand	+
Start	2728	End	6410
Name	OJ000322_04.0418.C5.o2.tm	Method	TBLASTX:Maize
Start	4894	End	5146
GI	none	Score	130
Exons	4894..4980, 4895..5128, 4901..4987, 4976..5146, 4984..5145		

Seq. No.	55023	Seq. ID	OJ000322_04.0418.C5
Gene No.	115343	Strand	+
Start	2728	End	6410
Name	OJ000322_04.0418.C5.o1.tm	Method	TBLASTX:Maize
Start	5555	End	6218
GI	none	Score	62
Exons	5555..5629, 5558..5617, 5617..5661, 5618..5659, 5729..5836, 5739..5837, 5930..5995, 5933..5998, 6089..6217, 6090..6182, 6090..6218		

Seq. No.	55024	Seq. ID	OJ000322_04.0418.C7
Gene No.	115344	Strand	+
Start	44	End	1269
Name	OJ000322_04.0418.C7.o1.gs	Method	GENSCAN
Start	44	End	1269
GI	none	Score	.77
Exons	44..160, 1201..1269		

Seq. No.	55024	Seq. ID	OJ000322_04.0418.C7
Gene No.	115345	Strand	-
Start	685	End	1291
Name	OJ000322_04.0418.C7.o1.np	Method	AAT/NAP
Start	685	End	1291
GI	131136	Score	654
Exons	685..1291		
GI Descrip.	PHOTOSYSTEM I P700 CHLOROPHYLL A APOPROTEIN A1 gi|72671|pir||A1RZP7 photosystem I P700 apoprotein A1 - rice chloroplast gi|11982|emb|CAA33996| (X15901) PSI P700 apoprotein A1 [Oryza sativa] gi|226605|prf||1603356AB photosystem I P700 apoprotein A1 [Oryza sativa]		

Seq. No.	55024	Seq. ID	OJ000322_04.0418.C7
Gene No.	115346	Strand	-
Start	1526	End	1978
Name	OJ000322_04.0418.C7.o2.tm	Method	TBLASTX:Maize

Start	36	End	277
GI	none	Score	73
Exons	36..113, 38..115, 115..177, 118..177, 175..225, 191..226, 208..276, 227..277, 231..275		

Seq. No.	55024	Seq. ID	OJ000322_04.0418.C7
Gene No.	115346	Strand	-
Start	1526	End	1978
Name	OJ000322_04.0418.C7.o1.tc	Method	TBLASTX:Cress
Start	850	End	1294
GI	none	Score	112
Exons	850..942, 952..1026, 1093..1293, 1094..1294		

Seq. No.	55024	Seq. ID	OJ000322_04.0418.C7
Gene No.	115346	Strand	-
Start	1526	End	1978
Name	OJ000322_04.0418.C7.o1.ts	Method	TBLASTX:Soybean
Start	850	End	1294
GI	none	Score	116
Exons	850..942, 946..1026, 1070..1294, 1093..1293		

Seq. No.	55024	Seq. ID	OJ000322_04.0418.C7
Gene No.	115346	Strand	-
Start	1526	End	1978
Name	OJ000322_04.0418.C7.o1.tm	Method	TBLASTX:Maize
Start	850	End	1294
GI	none	Score	64
Exons	850..942, 946..1026, 1093..1260, 1093..1293, 1094..1294		

Seq. No.	55024	Seq. ID	OJ000322_04.0418.C7
Gene No.	115346	Strand	-
Start	1526	End	1978
Name	OJ000322_04.0418.C7.o1.gp	Method	AAT/GAP
Start	1526	End	1978
GI	572451	Score	893
Exons	1526..1978		

Seq. No.	55025	Seq. ID	OJ000322_04.0418.C8
Gene No.	115347	Strand	-
Start	1	End	2214
Name	OJ000322_04.0418.C8.o1.np	Method	AAT/NAP
Start	1	End	2214
GI	5295969	Score	141
Exons	1..28, 367..680, 2181..2214		
GI Descrip.	(AB026295) ESTD24835(R2634) corresponds to a region of the predicted gene.; Similar to Arabidopsis thaliana chromosome II BAC T06D20 genomic sequence, complete sequence.(U90439) [Oryza sativa]		

Seq. No.	55026	Seq. ID	OJ000322_04.0418.C9
Gene No.	115348	Strand	+
Start	1	End	8468
Name	OJ000322_04.0418.C9.o1.np	Method	AAT/NAP
Start	1	End	7268
GI	2129709	Score	170
Exons	1..26, 1918..2558, 7203..7268		
GI Descrip.	reverse transcriptase - Arabidopsis thaliana retrotransposon		

Tall-1 gi|976278 (L47193) reverse transcriptase [Arabidopsis thaliana]

Seq. No.	55026	Seq. ID	OJ000322_04.0418.C9
Gene No.	115348	Strand	+
Start	1	End	8468
Name	OJ000322_04.0418.C9.o1.gs	Method	GENSCAN
Start	242	End	3106
GI	none	Score	.69
Exons	242..284, 600..625, 1852..2175, 2223..2664, 2769..3011, 3096..3106		

Seq. No.	55026	Seq. ID	OJ000322_04.0418.C9
Gene No.	115348	Strand	+
Start	1	End	8468
Name	OJ000322_04.0418.C9.o3.gs	Method	GENSCAN
Start	5394	End	8468
GI	none	Score	.66
Exons	5394..5440, 5970..6014, 6875..6921, 7584..7781, 7945..8468		

Seq. No.	55026	Seq. ID	OJ000322_04.0418.C9
Gene No.	115348	Strand	+
Start	1	End	8468
Name	OJ000322_04.0418.C9.o1.gp	Method	AAT/GAP
Start	7743	End	8008
GI	4878182	Score	532
Exons	7743..8008		

Seq. No.	55026	Seq. ID	OJ000322_04.0418.C9
Gene No.	115349	Strand	-
Start	3320	End	3909
Name	OJ000322_04.0418.C9.o2.gs	Method	GENSCAN
Start	3320	End	3909
GI	none	Score	.63
Exons	3320..3642, 3699..3909		

Seq. No.	55026	Seq. ID	OJ000322_04.0418.C9
Gene No.	115350	Strand	
Start	3948	End	4713
Name	OJ000322_04.0418.C9.o1.tc	Method	TBLASTX:Cress
Start	3948	End	4713
GI	none	Score	39
Exons	3948..4010, 4107..4157, 4279..4341, 4426..4536, 4609..4713		

Seq. No.	55027	Seq. ID	OJ000322_04.0418.C10
Gene No.	115351	Strand	+
Start	335	End	544
Name	OJ000322_04.0418.C10.o1.gs	Method	GENSCAN
Start	335	End	544
GI	none	Score	.69
Exons	335..544		

Seq. No.	55027	Seq. ID	OJ000322_04.0418.C10
Gene No.	115352	Strand	-
Start	345	End	546
Name	OJ000322_04.0418.C10.o1.gp	Method	AAT/GAP
Start	345	End	546

GI	4880863	Score	381
Exons	345..546		

Seq. No.	55028	Seq. ID	OJ000322_04.0418.C12
Gene No.	115353	Strand	+
Start	163	End	5751
Name	OJ000322_04.0418.C12.o1.gs	Method	GENSCAN
Start	163	End	2508
GI	none	Score	.95
Exons	163..237, 1521..1719, 2024..2508		

Seq. No.	55028	Seq. ID	OJ000322_04.0418.C12
Gene No.	115353	Strand	+
Start	163	End	5751
Name	OJ000322_04.0418.C12.o1.np	Method	AAT/NAP
Start	1054	End	2508
GI	7486242	Score	160
Exons	1054..1134, 1521..1862, 1930..2193, 2231..2508		
GI Descrip.	hypothetical protein F27F23.19 - Arabidopsis thaliana gi|3135269|gb|AAC16469.1| (AC003058) unknown protein [Arabidopsis thaliana]		

Seq. No.	55028	Seq. ID	OJ000322_04.0418.C12
Gene No.	115353	Strand	+
Start	163	End	5751
Name	OJ000322_04.0418.C12.o2.np	Method	AAT/NAP
Start	2085	End	5751
GI	3695059	Score	713
Exons	2085..2131, 3355..3527, 3612..4168, 5733..5751		
GI Descrip.	(AF064787) rac GTPase activating protein 1 [Lotus japonicus]		

Seq. No.	55028	Seq. ID	OJ000322_04.0418.C12
Gene No.	115353	Strand	+
Start	163	End	5751
Name	OJ000322_04.0418.C12.o1.gp	Method	AAT/GAP
Start	2107	End	2457
GI	21137_1.R1084	Score	639
Exons	2107..2457		
GI Descrip.	'5902181/gb|AAD01211.2| 1.0e-30 (AF005050) aspartyl aminopeptidase [Homo sapiens]'		

Seq. No.	55028	Seq. ID	OJ000322_04.0418.C12
Gene No.	115353	Strand	+
Start	163	End	5751
Name	OJ000322_04.0418.C12.o2.gs	Method	GENSCAN
Start	3331	End	4191
GI	none	Score	1
Exons	3331..3527, 3612..4191		

Seq. No.	55028	Seq. ID	OJ000322_04.0418.C12
Gene No.	115354	Strand	-
Start	5607	End	5955
Name	OJ000322_04.0418.C12.o2.tm	Method	TBLASTX:Maize
Start	1074	End	2174
GI	none	Score	85
Exons	1074..1139, 1081..1137, 1520..1708, 1554..1709, 1579..1713, 1594..1716, 1821..1901, 1822..1881, 2023..2076, 2023..2112,		

2127..2174

Seq. No.	55028	Seq. ID	OJ000322_04.0418.C12
Gene No.	115354	Strand	-
Start	5607	End	5955
Name	OJ000322_04.0418.C12.o3.tm	Method	TBLASTX:Maize
Start	2322	End	2508
GI	none	Score	187
Exons	2322..2507, 2389..2508		

Seq. No.	55028	Seq. ID	OJ000322_04.0418.C12
Gene No.	115354	Strand	-
Start	5607	End	5955
Name	OJ000322_04.0418.C12.o1.tm	Method	TBLASTX:Maize
Start	3402	End	4170
GI	none	Score	140
Exons	3402..3527, 3403..3504, 3609..3686, 3610..3819, 3732..3908, 3819..4169, 3820..4170		

Seq. No.	55028	Seq. ID	OJ000322_04.0418.C12
Gene No.	115354	Strand	-
Start	5607	End	5955
Name	OJ000322_04.0418.C12.o1.ts	Method	TBLASTX:Soybean
Start	3606	End	4068
GI	none	Score	239
Exons	3606..3815, 3610..3816, 3822..3938, 3823..4068		

Seq. No.	55028	Seq. ID	OJ000322_04.0418.C12
Gene No.	115354	Strand	-
Start	5607	End	5955
Name	OJ000322_04.0418.C12.o1.tc	Method	TBLASTX:Cress
Start	3619	End	4095
GI	none	Score	247
Exons	3619..3819, 3621..3686, 3732..3818, 3819..4082, 3820..4095		

Seq. No.	55028	Seq. ID	OJ000322_04.0418.C12
Gene No.	115354	Strand	-
Start	5607	End	5955
Name	OJ000322_04.0418.C12.o1.tw	Method	TBLASTX:Wheat
Start	3871	End	4170
GI	none	Score	282
Exons	3871..4170, 4002..4169		

Seq. No.	55028	Seq. ID	OJ000322_04.0418.C12
Gene No.	115354	Strand	-
Start	5607	End	5955
Name	OJ000322_04.0418.C12.o3.gs	Method	GENSCAN
Start	5607	End	5955
GI	none	Score	.81
Exons	5607..5704, 5766..5955		

Seq. No.	55029	Seq. ID	OJ000322_04.0418.C15
Gene No.	115355	Strand	+
Start	3818	End	6151
Name	OJ000322_04.0418.C15.o2.np	Method	AAT/NAP
Start	3818	End	6151
GI	3914212	Score	1812

Exons	3818..6151		
GI Descrip.	5-OXOPROLINASE (5-OXO-L-PROLINASE) (PYROGLUTAMASE) (5-OPASE) gi|1732065 (U70825) 5-oxo-L-prolinase [Rattus norvegicus]		
Seq. No.	55029	Seq. ID	OJ000322_04.0418.C15
Gene No.	115355	Strand	+
Start	3818	End	6151
Name	OJ000322_04.0418.C15.o1.gp	Method	AAT/GAP
Start	5265	End	5759
GI	uC-osflm202111d01b1	Score	945
Exons	5265..5759		
GI Descrip.	'3914212/sp|P97608|OPLA_RAT 2.0e-32 5-OXOPROLINASE (5-OXO-L-PROLINASE) (PYROGLUTAMASE) (5-OPASE) >gi_1732065 (U70825) 5-oxo-L-prolinase [Rattus norvegicus]'		
Seq. No.	55029	Seq. ID	OJ000322_04.0418.C15
Gene No.	115356	Strand	-
Start	2253	End	4002
Name	OJ000322_04.0418.C15.o1.np	Method	AAT/NAP
Start	2253	End	4002
GI	6562258	Score	166
Exons	2253..2619, 3968..4002		
GI Descrip.	(AL132980) putative protein [Arabidopsis thaliana]		
Seq. No.	55029	Seq. ID	OJ000322_04.0418.C15
Gene No.	115356	Strand	-
Start	2253	End	4002
Name	OJ000322_04.0418.C15.o2.ts	Method	TBLASTX:Soybean
Start	2424	End	2588
GI	4301121	Score	148
Exons	2424..2588, 2425..2574		
GI Descrip.	882341 3.0e-21 (U24702) LRP1 [Arabidopsis thaliana]		
Seq. No.	55029	Seq. ID	OJ000322_04.0418.C15
Gene No.	115356	Strand	-
Start	2253	End	4002
Name	OJ000322_04.0418.C15.o2.tc	Method	TBLASTX:Cress
Start	2433	End	2592
GI	none	Score	108
Exons	2433..2591, 2440..2592		
Seq. No.	55029	Seq. ID	OJ000322_04.0418.C15
Gene No.	115357	Strand	
Start	4034	End	4475
Name	OJ000322_04.0418.C15.o1.ts	Method	TBLASTX:Soybean
Start	4034	End	4207
GI	5175354	Score	224
Exons	4034..4207, 4034..4171, 4036..4200		
GI Descrip.	3914212/sp_P97608_OPLA_RAT 4.0e-13 5-OXOPROLINASE (5-OXO-L-PROLINASE) (PYROGLUTAMASE) (5-OPASE) >gi_1732065 (U70825) 5-oxo-L-prolinase [Rattus norvegicus]		
Seq. No.	55029	Seq. ID	OJ000322_04.0418.C15
Gene No.	115357	Strand	
Start	4034	End	4475
Name	OJ000322_04.0418.C15.o1.tc	Method	TBLASTX:Cress
Start	4090	End	4475

GI	none	Score	181
Exons	4090..4203, 4091..4207, 4280..4471, 4283..4474, 4285..4473, 4320..4475		

Seq. No.	55029	Seq. ID	OJ000322_04.0418.C15
Gene No.	115358	Strand	
Start	4391	End	4912
Name	OJ000322_04.0418.C15.o2.tm	Method	TBLASTX:Maize
Start	4391	End	4912
GI	none	Score	164
Exons	4391..4600, 4571..4726, 4618..4713, 4754..4849, 4756..4842, 4876..4899, 4877..4912		

Seq. No.	55029	Seq. ID	OJ000322_04.0418.C15
Gene No.	115359	Strand	
Start	4951	End	5131
Name	OJ000322_04.0418.C15.o3.ts	Method	TBLASTX:Soybean
Start	4951	End	5131
GI	none	Score	199
Exons	4951..5109, 4952..5131		

Seq. No.	55029	Seq. ID	OJ000322_04.0418.C15
Gene No.	115360	Strand	
Start	5425	End	5827
Name	OJ000322_04.0418.C15.o1.tm	Method	TBLASTX:Maize
Start	5425	End	5827
GI	none	Score	108
Exons	5425..5508, 5426..5509, 5429..5509, 5502..5825, 5504..5827		

Seq. No.	55030	Seq. ID	OJ000322_04.0418.C20
Gene No.	115361	Strand	+
Start	1	End	380
Name	OJ000322_04.0418.C20.o1.gp	Method	AAT/GAP
Start	1	End	380
GI	4880863	Score	267
Exons	1..84, 163..258, 338..380		

Seq. No.	55030	Seq. ID	OJ000322_04.0418.C20
Gene No.	115362	Strand	+
Start	493	End	1306
Name	OJ000322_04.0418.C20.o1.gs	Method	GENSCAN
Start	493	End	1306
GI	none	Score	.58
Exons	493..634, 730..762, 840..890, 1208..1306		

Seq. No.	55031	Seq. ID	OJ000322_04.0418.C21
Gene No.	115363	Strand	+
Start	1	End	2623
Name	OJ000322_04.0418.C21.o1.np	Method	AAT/NAP
Start	1	End	2623
GI	7413533	Score	1245
Exons	1..100, 564..836, 1171..1318, 1439..1678, 1984..2116, 2203..2384, 2591..2623		
GI Descrip.	(AL162972) aspartyl aminopeptidase-like protein [Arabidopsis thaliana]		

Seq. No.	55031	Seq. ID	OJ000322_04.0418.C21

Gene No.	115363	Strand	+
Start	1	End	2623
Name	OJ000322_04.0418.C21.o1.tc	Method	TBLASTX:Cress
Start	3	End	816
GI	none	Score	167
Exons	3..119, 3..104, 8..118, 8..118, 551..712, 555..797, 556..798, 565..816		

Seq. No.	55031	Seq. ID	OJ000322_04.0418.C21
Gene No.	115363	Strand	+
Start	1	End	2623
Name	OJ000322_04.0418.C21.o1.tm	Method	TBLASTX:Maize
Start	38	End	2055
GI	none	Score	78
Exons	38..118, 39..122, 541..753, 555..743, 751..837, 774..824, 1172..1234, 1298..1324, 1429..1680, 1436..1681, 1972..2055		

Seq. No.	55031	Seq. ID	OJ000322_04.0418.C21
Gene No.	115363	Strand	+
Start	1	End	2623
Name	OJ000322_04.0418.C21.o1.gs	Method	GENSCAN
Start	66	End	2384
GI	none	Score	.78
Exons	66..100, 522..563, 1171..1318, 1439..1678, 1984..2116, 2203..2384		

Seq. No.	55031	Seq. ID	OJ000322_04.0418.C21
Gene No.	115363	Strand	+
Start	1	End	2623
Name	OJ000322_04.0418.C21.o1.ts	Method	TBLASTX:Soybean
Start	564	End	1237
GI	none	Score	366
Exons	564..836, 565..858, 1172..1237		

Seq. No.	55031	Seq. ID	OJ000322_04.0418.C21
Gene No.	115363	Strand	+
Start	1	End	2623
Name	OJ000322_04.0418.C21.o2.ts	Method	TBLASTX:Soybean
Start	1423	End	2407
GI	none	Score	224
Exons	1423..1569, 1436..1681, 1648..1680, 1969..2058, 1972..2055, 2190..2390, 2205..2384, 2282..2407		

Seq. No.	55031	Seq. ID	OJ000322_04.0418.C21
Gene No.	115363	Strand	+
Start	1	End	2623
Name	OJ000322_04.0418.C21.o2.tc	Method	TBLASTX:Cress
Start	1556	End	2390
GI	none	Score	110
Exons	1556..1681, 1981..2046, 1983..2036, 2111..2227, 2163..2363, 2202..2348, 2282..2362, 2355..2390		

Seq. No.	55031	Seq. ID	OJ000322_04.0418.C21
Gene No.	115363	Strand	+
Start	1	End	2623
Name	OJ000322_04.0418.C21.o1.gp	Method	AAT/GAP
Start	2067	End	2384

GI	2801262	Score	376
Exons	2067..2116, 2203..2384		
GI Descrip.	5902181/gb|AAD01211.2| 1.0e-30 (AF005050) aspartyl aminopeptidase [Homo sapiens]		

Seq. No.	55031	Seq. ID	OJ000322_04.0418.C21
Gene No.	115363	Strand	+
Start	1	End	2623
Name	OJ000322_04.0418.C21.o2.tm	Method	TBLASTX:Maize
Start	2208	End	2390
GI	none	Score	291
Exons	2208..2390, 2211..2390		

Seq. No.	55032	Seq. ID	OJ000322_04.0418.C22
Gene No.	115364	Strand	+
Start	1	End	1969
Name	OJ000322_04.0418.C22.o1.gp	Method	AAT/GAP
Start	1	End	1947
GI	2801262	Score	185
Exons	1..31, 1864..1947		
GI Descrip.	5902181/gb|AAD01211.2| 1.0e-30 (AF005050) aspartyl aminopeptidase [Homo sapiens]		

Seq. No.	55032	Seq. ID	OJ000322_04.0418.C22
Gene No.	115364	Strand	+
Start	1	End	1969
Name	OJ000322_04.0418.C22.o1.gs	Method	GENSCAN
Start	535	End	1969
GI	none	Score	.57
Exons	535..704, 838..1032, 1864..1969		

Seq. No.	55032	Seq. ID	OJ000322_04.0418.C22
Gene No.	115365	Strand	+
Start	4690	End	5145
Name	OJ000322_04.0418.C22.o2.gp	Method	AAT/GAP
Start	4690	End	5145
GI	LIB3432-052-P1-K1-G9	Score	584
Exons	4690..4742, 4777..5145		
GI Descrip.	'4263696/gb|AAD15382| 4.0e-18 (AC006223) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	55032	Seq. ID	OJ000322_04.0418.C22
Gene No.	115366	Strand	-
Start	559	End	1010
Name	OJ000322_04.0418.C22.o1.np	Method	AAT/NAP
Start	559	End	1010
GI	6815062	Score	214
Exons	559..622, 848..1010		
GI Descrip.	(AP001080) Similar to Arabidopsis thaliana chromosome II BAC F16P2 genomic sequence;mudrA like protein (AC004561) [Oryza sativa]		

Seq. No.	55032	Seq. ID	OJ000322_04.0418.C22
Gene No.	115367	Strand	-
Start	2696	End	7011
Name	OJ000322_04.0418.C22.o2.gs	Method	GENSCAN
Start	2696	End	6124

GI	none	Score	.59
Exons	2696..2929, 2999..3067, 3293..3413, 3608..3788, 4418..4473, 4906..5671, 5869..6124		

Seq. No.	55032	Seq. ID	OJ000322_04.0418.C22
Gene No.	115367	Strand	-
Start	2696	End	7011
Name	OJ000322_04.0418.C22.o2.np	Method	AAT/NAP
Start	3622	End	7011
GI	4263696	Score	536
Exons	3622..3699, 3885..3986, 4788..5772, 6919..7011		
GI Descrip.	(AC006223) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55032	Seq. ID	OJ000322_04.0418.C22
Gene No.	115368	Strand	-
Start	6950	End	8024
Name	OJ000322_04.0418.C22.o3.tm	Method	TBLASTX:Maize
Start	2765	End	3703
GI	none	Score	121
Exons	2765..2920, 2765..2920, 2767..2931, 2769..2930, 2984..3064, 2993..3067, 3000..3068, 3006..3068, 3290..3412, 3291..3413, 3295..3417, 3300..3413, 3605..3703, 3607..3702		

Seq. No.	55032	Seq. ID	OJ000322_04.0418.C22
Gene No.	115368	Strand	-
Start	6950	End	8024
Name	OJ000322_04.0418.C22.o1.tm	Method	TBLASTX:Maize
Start	3921	End	5213
GI	none	Score	130
Exons	3921..3983, 4769..5137, 4788..5213, 4801..5049		

Seq. No.	55032	Seq. ID	OJ000322_04.0418.C22
Gene No.	115368	Strand	-
Start	6950	End	8024
Name	OJ000322_04.0418.C22.o1.ts	Method	TBLASTX:Soybean
Start	4980	End	5327
GI	none	Score	105
Exons	4980..5327, 4980..5324		

Seq. No.	55032	Seq. ID	OJ000322_04.0418.C22
Gene No.	115368	Strand	-
Start	6950	End	8024
Name	OJ000322_04.0418.C22.o3.np	Method	AAT/NAP
Start	6920	End	8024
GI	4514635	Score	960
Exons	6920..7671, 7768..8024		
GI Descrip.	(AB021175) root cap protein 1 [Zea mays]		

Seq. No.	55032	Seq. ID	OJ000322_04.0418.C22
Gene No.	115368	Strand	-
Start	6950	End	8024
Name	OJ000322_04.0418.C22.o3.gs	Method	GENSCAN
Start	6950	End	8018
GI	none	Score	.99
Exons	6950..7671, 7768..7934, 7966..8018		

Seq. No.	55032	Seq. ID	OJ000322_04.0418.C22

Gene No.	115368	Strand	-
Start	6950	End	8024
Name	OJ000322_04.0418.C22.o4.tm	Method	TBLASTX:Maize
Start	6980	End	7183
GI	none	Score	107
Exons	6980..7183, 7002..7181		

Seq. No.	55032	Seq. ID	OJ000322_04.0418.C22
Gene No.	115368	Strand	-
Start	6950	End	8024
Name	OJ000322_04.0418.C22.o1.tc	Method	TBLASTX:Cress
Start	7061	End	7657
GI	none	Score	96
Exons	7061..7261, 7062..7265, 7337..7504, 7359..7502, 7586..7606, 7613..7657		

Seq. No.	55032	Seq. ID	OJ000322_04.0418.C22
Gene No.	115368	Strand	-
Start	6950	End	8024
Name	OJ000322_04.0418.C22.o3.ts	Method	TBLASTX:Soybean
Start	7091	End	7276
GI	none	Score	86
Exons	7091..7276, 7110..7268		

Seq. No.	55032	Seq. ID	OJ000322_04.0418.C22
Gene No.	115368	Strand	-
Start	6950	End	8024
Name	OJ000322_04.0418.C22.o2.ts	Method	TBLASTX:Soybean
Start	7397	End	7657
GI	none	Score	96
Exons	7397..7606, 7419..7574, 7607..7657		

Seq. No.	55032	Seq. ID	OJ000322_04.0418.C22
Gene No.	115368	Strand	-
Start	6950	End	8024
Name	OJ000322_04.0418.C22.o2.tm	Method	TBLASTX:Maize
Start	7499	End	7840
GI	none	Score	84
Exons	7499..7678, 7500..7574, 7626..7679, 7769..7840		

Seq. No.	55032	Seq. ID	OJ000322_04.0418.C22
Gene No.	115368	Strand	-
Start	6950	End	8024
Name	OJ000322_04.0418.C22.o1.tw	Method	TBLASTX:Wheat
Start	7538	End	7849
GI	none	Score	49
Exons	7538..7681, 7539..7574, 7626..7682, 7760..7849, 7761..7841		

Seq. No.	55033	Seq. ID	OJ000322_05.0419.C2
Gene No.	115369	Strand	+
Start	70	End	273
Name	OJ000322_05.0419.C2.o1.gs	Method	GENSCAN
Start	70	End	273
GI	none	Score	.67
Exons	70..273		

Seq. No.	55034	Seq. ID	OJ000322_05.0419.C3

Gene No.	115370	Strand	+
Start	1504	End	2502
Name	OJ000322_05.0419.C3.o1.gp	Method	AAT/GAP
Start	1504	End	2502
GI	1050_2.R1084	Score	1170
Exons	1504..1835, 1930..2039, 2289..2502		
GI Descrip.	'2224915 1.0e-96 (U95968) beta-expansin [Oryza sativa]'		

Seq. No.	55034	Seq. ID	OJ000322_05.0419.C3
Gene No.	115370	Strand	+
Start	1504	End	2502
Name	OJ000322_05.0419.C3.o1.gs	Method	GENSCAN
Start	1613	End	2472
GI	none	Score	.94
Exons	1613..1835, 1950..2039, 2289..2472		

Seq. No.	55034	Seq. ID	OJ000322_05.0419.C3
Gene No.	115370	Strand	+
Start	1504	End	2502
Name	OJ000322_05.0419.C3.o1.np	Method	AAT/NAP
Start	1616	End	2502
GI	7489455	Score	471
Exons	1616..1666, 1736..1835, 1930..2039, 2289..2502		
GI Descrip.	beta-expansin - rice gi|2224915|gb|AAB61710.1| (U95968) beta-expansin [Oryza sativa]		

Seq. No.	55034	Seq. ID	OJ000322_05.0419.C3
Gene No.	115370	Strand	+
Start	1504	End	2502
Name	OJ000322_05.0419.C3.o1.tm	Method	TBLASTX:Maize
Start	1736	End	2473
GI	none	Score	196
Exons	1736..1846, 1738..1842, 1923..2042, 1928..2038, 1935..2042, 2122..2172, 2166..2198, 2286..2360, 2286..2360, 2360..2473, 2361..2420, 2374..2472		

Seq. No.	55034	Seq. ID	OJ000322_05.0419.C3
Gene No.	115370	Strand	+
Start	1504	End	2502
Name	OJ000322_05.0419.C3.o1.tw	Method	TBLASTX:Wheat
Start	1775	End	2360
GI	none	Score	112
Exons	1775..1846, 1783..1845, 1923..2042, 1928..2035, 1938..2048, 2282..2359, 2286..2360, 2286..2360		

Seq. No.	55035	Seq. ID	OJ000322_05.0419.C4
Gene No.	115371	Strand	+
Start	1	End	1126
Name	OJ000322_05.0419.C4.o1.gp	Method	AAT/GAP
Start	1	End	1126
GI	1050_2.R1084	Score	1398
Exons	1..31, 408..1126		
GI Descrip.	'2224915 1.0e-96 (U95968) beta-expansin [Oryza sativa]'		

Seq. No.	55035	Seq. ID	OJ000322_05.0419.C4
Gene No.	115371	Strand	+
Start	1	End	1126

Name	OJ000322_05.0419.C4.o1.np	Method	AAT/NAP
Start	1	End	750
GI	7489455	Score	336
Exons	1..62, 411..750		
GI Descrip.	beta-expansin - rice gi|2224915|gb|AAB61710.1| (U95968) beta-expansin [Oryza sativa]		

Seq. No.	55035	Seq. ID	OJ000322_05.0419.C4
Gene No.	115371	Strand	+
Start	1	End	1126
Name	OJ000322_05.0419.C4.o1.gs	Method	GENSCAN
Start	411	End	753
GI	none	Score	.88
Exons	411..753		

Seq. No.	55035	Seq. ID	OJ000322_05.0419.C4
Gene No.	115372	Strand	-
Start	3222	End	5418
Name	OJ000322_05.0419.C4.o1.tw	Method	TBLASTX:Wheat
Start	398	End	757
GI	none	Score	180
Exons	398..463, 409..549, 426..482, 555..599, 565..756, 567..752, 674..757		

Seq. No.	55035	Seq. ID	OJ000322_05.0419.C4
Gene No.	115372	Strand	-
Start	3222	End	5418
Name	OJ000322_05.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	408	End	753
GI	none	Score	324
Exons	408..752, 409..753, 410..472, 420..749, 674..751		

Seq. No.	55035	Seq. ID	OJ000322_05.0419.C4
Gene No.	115372	Strand	-
Start	3222	End	5418
Name	OJ000322_05.0419.C4.o1.ts	Method	TBLASTX:Soybean
Start	409	End	750
GI	none	Score	147
Exons	409..543, 529..657, 664..750		

Seq. No.	55035	Seq. ID	OJ000322_05.0419.C4
Gene No.	115372	Strand	-
Start	3222	End	5418
Name	OJ000322_05.0419.C4.o2.gp	Method	AAT/GAP
Start	2842	End	3460
GI	none	Score	986
Exons	2842..3326, 3423..3460		

Seq. No.	55035	Seq. ID	OJ000322_05.0419.C4
Gene No.	115372	Strand	-
Start	3222	End	5418
Name	OJ000322_05.0419.C4.o2.gs	Method	GENSCAN
Start	3222	End	5418
GI	none	Score	.92
Exons	3222..3326, 3423..3794, 4309..4374, 5386..5418		

Seq. No.	55035	Seq. ID	OJ000322_05.0419.C4

Gene No.	115372	Strand	-
Start	3222	End	5418
Name	OJ000322_05.0419.C4.o2.np	Method	AAT/NAP
Start	3228	End	4374
GI	7486533	Score	199
Exons	3228..3347, 3480..3794, 4309..4374		
GI Descrip.	hypothetical protein F6N15.11 - Arabidopsis thaliana gi|3193326|gb|AAC19308.1| (AF069299) contains similarity to transcriptional activators such as Ra-like and myc-like regulatory R proteins [Arabidopsis thaliana] gi|7267092|emb|CAB80763.1| (AL161471) putative transcriptional regulator [Arabidopsis thaliana]		

Seq. No.	55035	Seq. ID	OJ000322_05.0419.C4
Gene No.	115372	Strand	-
Start	3222	End	5418
Name	OJ000322_05.0419.C4.o2.tm	Method	TBLASTX:Maize
Start	3302	End	3797
GI	none	Score	46
Exons	3302..3331, 3424..3504, 3543..3596, 3544..3597, 3632..3676, 3637..3744, 3640..3675, 3694..3795, 3738..3797		

Seq. No.	55036	Seq. ID	OJ000322_05.0419.C5
Gene No.	115373	Strand	-
Start	403	End	1160
Name	OJ000322_05.0419.C5.o1.gs	Method	GENSCAN
Start	403	End	1160
GI	none	Score	.59
Exons	403..766, 830..1011, 1122..1160		

Seq. No.	55037	Seq. ID	OJ000322_05.0419.C6
Gene No.	115374	Strand	-
Start	1320	End	2807
Name	OJ000322_05.0419.C6.o1.gs	Method	GENSCAN
Start	1320	End	2807
GI	none	Score	.72
Exons	1320..1421, 1810..1850, 2122..2435, 2733..2807		

Seq. No.	55038	Seq. ID	OJ000322_05.0419.C7
Gene No.	115375	Strand	-
Start	89	End	1443
Name	OJ000322_05.0419.C7.o1.gs	Method	GENSCAN
Start	89	End	1443
GI	none	Score	.55
Exons	89..240, 679..896, 1387..1443		

Seq. No.	55039	Seq. ID	OJ000322_05.0419.C8
Gene No.	115376	Strand	+
Start	1036	End	1200
Name	OJ000322_05.0419.C8.o1.gs	Method	GENSCAN
Start	1036	End	1200
GI	none	Score	.43
Exons	1036..1200		

Seq. No.	55039	Seq. ID	OJ000322_05.0419.C8
Gene No.	115377	Strand	-
Start	2051	End	3078

Name	OJ000322_05.0419.C8.o2.gs	Method	GENSCAN
Start	2051	End	3078
GI	none	Score	.78
Exons	2051..2184, 2862..3078		

Seq. No.	55040	Seq. ID	OJ000322_05.0419.C9
Gene No.	115378	Strand	-
Start	1	End	817
Name	OJ000322_05.0419.C9.o1.np	Method	AAT/NAP
Start	1	End	817
GI	7288006	Score	230
Exons	1..129, 224..643, 740..817		
GI Descrip.	(AL138646) zinc finger protein-like [Arabidopsis thaliana]		

Seq. No.	55040	Seq. ID	OJ000322_05.0419.C9
Gene No.	115378	Strand	-
Start	1	End	817
Name	OJ000322_05.0419.C9.o1.gs	Method	GENSCAN
Start	14	End	817
GI	none	Score	.61
Exons	14..817		

Seq. No.	55041	Seq. ID	OJ000322_05.0419.C10
Gene No.	115379	Strand	-
Start	194	End	770
Name	OJ000322_05.0419.C10.o1.gs	Method	GENSCAN
Start	194	End	770
GI	none	Score	.5
Exons	194..280, 675..770		

Seq. No.	55042	Seq. ID	OJ000322_05.0419.C12
Gene No.	115380	Strand	+
Start	313	End	1138
Name	OJ000322_05.0419.C12.o1.gp	Method	AAT/GAP
Start	205	End	1005
GI	62731_1.R1084	Score	935
Exons	205..489, 594..703, 877..1005		
GI Descrip.	'2224915 8.0e-37 (U95968) beta-expansin [Oryza sativa]'		

Seq. No.	55042	Seq. ID	OJ000322_05.0419.C12
Gene No.	115380	Strand	+
Start	313	End	1138
Name	OJ000322_05.0419.C12.o1.np	Method	AAT/NAP
Start	310	End	1138
GI	7489455	Score	638
Exons	310..386, 416..489, 594..703, 877..1138		
GI Descrip.	beta-expansin - rice gi|2224915|gb|AAB61710.1| (U95968) beta-expansin [Oryza sativa]		

Seq. No.	55042	Seq. ID	OJ000322_05.0419.C12
Gene No.	115380	Strand	+
Start	313	End	1138
Name	OJ000322_05.0419.C12.o1.gs	Method	GENSCAN
Start	313	End	1121
GI	none	Score	.81
Exons	313..357, 378..489, 594..703, 882..1121		

Seq. No.	55042	Seq. ID	OJ000322_05.0419.C12
Gene No.	115380	Strand	+
Start	313	End	1138
Name	OJ000322_05.0419.C12.o2.tw	Method	TBLASTX:Wheat
Start	363	End	709
GI	none	Score	43
Exons	363..431, 396..491, 419..526, 599..643, 610..708, 611..709	422..490, 430..492, 451..534,	

Seq. No.	55042	Seq. ID	OJ000322_05.0419.C12
Gene No.	115380	Strand	+
Start	313	End	1138
Name	OJ000322_05.0419.C12.o1.tm	Method	TBLASTX:Maize
Start	386	End	1138
GI	none	Score	132
Exons	386..490, 390..491, 429..491, 602..643, 610..708, 611..709,	430..492, 448..543, 601..699, 885..1136, 893..1138	

Seq. No.	55042	Seq. ID	OJ000322_05.0419.C12
Gene No.	115380	Strand	+
Start	313	End	1138
Name	OJ000322_05.0419.C12.o1.ts	Method	TBLASTX:Soybean
Start	392	End	1133
GI	none	Score	75
Exons	392..475, 393..482, 617..709,	628..705, 950..1132, 954..1133	

Seq. No.	55042	Seq. ID	OJ000322_05.0419.C12
Gene No.	115380	Strand	+
Start	313	End	1138
Name	OJ000322_05.0419.C12.o1.tw	Method	TBLASTX:Wheat
Start	941	End	1138
GI	none	Score	178
Exons	941..1054, 941..1138, 942..1136		

Seq. No.	55043	Seq. ID	OJ000322_05.0419.C15
Gene No.	115381	Strand	-
Start	7	End	503
Name	OJ000322_05.0419.C15.o1.gs	Method	GENSCAN
Start	7	End	503
GI	none	Score	.77
Exons	7..279, 394..503		

Seq. No.	55044	Seq. ID	OJ000322_05.0419.C16
Gene No.	115382	Strand	+
Start	96	End	1697
Name	OJ000322_05.0419.C16.o1.gs	Method	GENSCAN
Start	96	End	1697
GI	none	Score	.52
Exons	96..173, 574..912, 989..1101,	1523..1697	

Seq. No.	55045	Seq. ID	OJ000322_05.0419.C18
Gene No.	115383	Strand	+
Start	1	End	1315
Name	OJ000322_05.0419.C18.o2.np	Method	AAT/NAP
Start	1	End	1315
GI	7242910	Score	124
Exons	1..49, 1068..1315		

GI Descrip. (AP001383) hypothetical protein [Oryza sativa]

Seq. No.	55045	Seq. ID	OJ000322_05.0419.C18
Gene No.	115383	Strand	+
Start	1	End	1315
Name	OJ000322_05.0419.C18.o1.np	Method	AAT/NAP
Start	389	End	1024
GI	7485627	Score	164
Exons	389..492, 742..1024		
GI Descrip.	hypothetical protein F17K2.13 - Arabidopsis thaliana gi|2979555|gb|AAC06164.1| (AC003680) unknown protein [Arabidopsis thaliana]		

Seq. No.	55045	Seq. ID	OJ000322_05.0419.C18
Gene No.	115384	Strand	+
Start	4169	End	6184
Name	OJ000322_05.0419.C18.o2.gs	Method	GENSCAN
Start	4169	End	6184
GI	none	Score	.56
Exons	4169..4325, 5812..5882, 6158..6184		

Seq. No.	55046	Seq. ID	OJ000322_05.0419.C19
Gene No.	115385	Strand	+
Start	457	End	2938
Name	OJ000322_05.0419.C19.o1.gs	Method	GENSCAN
Start	457	End	2938
GI	none	Score	.57
Exons	457..578, 2841..2938		

Seq. No.	55046	Seq. ID	OJ000322_05.0419.C19
Gene No.	115386	Strand	-
Start	841	End	1362
Name	OJ000322_05.0419.C19.o1.gp	Method	AAT/GAP
Start	841	End	1362
GI	LIB3434-038-P1-K1-F1	Score	744
Exons	841..1362		
GI Descrip.	'5257255/dbj|AP000364.1|AP000364 0.0e+00 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	55047	Seq. ID	OJ000322_05.0419.C20
Gene No.	115387	Strand	+
Start	6	End	590
Name	OJ000322_05.0419.C20.o1.gs	Method	GENSCAN
Start	6	End	590
GI	none	Score	.49
Exons	6..133, 578..590		

Seq. No.	55047	Seq. ID	OJ000322_05.0419.C20
Gene No.	115388	Strand	-
Start	1	End	1592
Name	OJ000322_05.0419.C20.o1.np	Method	AAT/NAP
Start	1	End	1592
GI	4914331	Score	107
Exons	1..41, 1443..1592		
GI Descrip.	(AC005489) F14N23.17 [Arabidopsis thaliana]		

Seq. No.	55047	Seq. ID	OJ000322_05.0419.C20

Gene No.	115388	Strand	-
Start	1	End	1592
Name	OJ000322_05.0419.C20.o2.gs	Method	GENSCAN
Start	836	End	1592
GI	none	Score	.47
Exons	836..855, 1001..1166, 1226..1350, 1364..1592		

Seq. No.	55048	Seq. ID	OJ000322_05.0419.C21
Gene No.	115389	Strand	-
Start	71	End	418
Name	OJ000322_05.0419.C21.o1.gs	Method	GENSCAN
Start	71	End	418
GI	none	Score	.59
Exons	71..325, 355..418		

Seq. No.	55049	Seq. ID	OJ000322_05.0419.C26
Gene No.	115390	Strand	+
Start	620	End	726
Name	OJ000322_05.0419.C26.o1.gs	Method	GENSCAN
Start	620	End	726
GI	none	Score	.9
Exons	620..726		

Seq. No.	55049	Seq. ID	OJ000322_05.0419.C26
Gene No.	115391	Strand	-
Start	1766	End	2382
Name	OJ000322_05.0419.C26.o2.gs	Method	GENSCAN
Start	1766	End	2382
GI	none	Score	.58
Exons	1766..1818, 2274..2382		

Seq. No.	55050	Seq. ID	OJ000322_05.0419.C27
Gene No.	115392	Strand	+
Start	1	End	1502
Name	OJ000322_05.0419.C27.o1.gp	Method	AAT/GAP
Start	1	End	1336
GI	1050_3.R1084	Score	1347
Exons	1..298, 402..511, 648..829, 1175..1336		
GI Descrip.	'2224915 3.0e-60 (U95968) beta-expansin [Oryza sativa]'		

Seq. No.	55050	Seq. ID	OJ000322_05.0419.C27
Gene No.	115392	Strand	+
Start	1	End	1502
Name	OJ000322_05.0419.C27.o1.gs	Method	GENSCAN
Start	115	End	1502
GI	none	Score	.99
Exons	115..298, 402..511, 648..829, 1175..1502		

Seq. No.	55050	Seq. ID	OJ000322_05.0419.C27
Gene No.	115392	Strand	+
Start	1	End	1502
Name	OJ000322_05.0419.C27.o1.np	Method	AAT/NAP
Start	148	End	1496
GI	7489455	Score	776
Exons	148..298, 402..511, 648..829, 1175..1496		
GI Descrip.	beta-expansin - rice gi|2224915|gb|AAB61710.1| (U95968) beta-expansin [Oryza sativa]		

Seq. No.	55050	Seq. ID	OJ000322_05.0419.C27
Gene No.	115393	Strand	-
Start	1288	End	1531
Name	OJ000322_05.0419.C27.o2.tm	Method	TBLASTX:Maize
Start	123	End	519
GI	none	Score	131
Exons	123..263, 172..264, 385..510,	386..514, 409..519, 410..514	

Seq. No.	55050	Seq. ID	OJ000322_05.0419.C27
Gene No.	115393	Strand	-
Start	1288	End	1531
Name	OJ000322_05.0419.C27.o1.ts	Method	TBLASTX:Soybean
Start	385	End	1502
GI	none	Score	95
Exons	385..414, 431..514, 436..513, 1172..1246, 1308..1436, 1404..1502	645..707, 726..785, 1149..1307,	

Seq. No.	55050	Seq. ID	OJ000322_05.0419.C27
Gene No.	115393	Strand	-
Start	1288	End	1531
Name	OJ000322_05.0419.C27.o2.tw	Method	TBLASTX:Wheat
Start	385	End	712
GI	none	Score	202
Exons	385..510, 386..514, 409..522, 647..712	645..710, 645..710, 647..712,	

Seq. No.	55050	Seq. ID	OJ000322_05.0419.C27
Gene No.	115393	Strand	-
Start	1288	End	1531
Name	OJ000322_05.0419.C27.o1.tm	Method	TBLASTX:Maize
Start	660	End	1469
GI	none	Score	182
Exons	660..785, 662..781, 744..791, 1172..1465, 1173..1469	789..830, 791..829, 1149..1463,	

Seq. No.	55050	Seq. ID	OJ000322_05.0419.C27
Gene No.	115393	Strand	-
Start	1288	End	1531
Name	OJ000322_05.0419.C27.o1.tw	Method	TBLASTX:Wheat
Start	713	End	1496
GI	none	Score	93
Exons	713..781, 713..781, 714..782, 789..830, 884..904, 1149..1496, 1172..1486	744..791, 782..829, 789..830,	

Seq. No.	55050	Seq. ID	OJ000322_05.0419.C27
Gene No.	115393	Strand	-
Start	1288	End	1531
Name	OJ000322_05.0419.C27.o2.gp	Method	AAT/GAP
Start	1288	End	1531
GI	2192_1.R1084	Score	262
Exons	1288..1531		
GI Descrip.	'4097015/gb|U43955|XXU43955 2.0e-20 Expression vector pBRz, complete cds'		

Seq. No.	55051	Seq. ID	OJ000322_05.0419.C31
Gene No.	115394	Strand	+

Start	120	End	4162
Name	OJ000322_05.0419.C31.o1.gs	Method	GENSCAN
Start	120	End	4162
GI	none	Score	.52
Exons	120..364, 1206..1286, 2013..2119, 3773..3887, 4027..4162		

Seq. No.	55051	Seq. ID	OJ000322_05.0419.C31
Gene No.	115394	Strand	+
Start	120	End	4162
Name	OJ000322_05.0419.C31.o2.np	Method	AAT/NAP
Start	1594	End	3522
GI	7340868	Score	40
Exons	1594..1650, 3372..3522		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	55051	Seq. ID	OJ000322_05.0419.C31
Gene No.	115394	Strand	+
Start	120	End	4162
Name	OJ000322_05.0419.C31.o1.np	Method	AAT/NAP
Start	1725	End	1901
GI	7489185	Score	69
Exons	1725..1901		
GI Descrip.	prohibitin - common tobacco gi|1946329|gb|AAC49690.1| (U69154) prohibitin [Nicotiana tabacum]		

Seq. No.	55052	Seq. ID	OJ000322_05.0419.C32
Gene No.	115395	Strand	+
Start	1	End	1088
Name	OJ000322_05.0419.C32.o1.np	Method	AAT/NAP
Start	1	End	1088
GI	3258569	Score	269
Exons	1..24, 203..409, 500..717, 807..1088		
GI Descrip.	(U89959) Similar to yeast general negative regulator of transcription subunit 1 [Arabidopsis thaliana]		

Seq. No.	55052	Seq. ID	OJ000322_05.0419.C32
Gene No.	115395	Strand	+
Start	1	End	1088
Name	OJ000322_05.0419.C32.o1.gs	Method	GENSCAN
Start	98	End	1027
GI	none	Score	.89
Exons	98..398, 489..717, 807..1027		

Seq. No.	55053	Seq. ID	OJ000322_05.0419.C33
Gene No.	115396	Strand	+
Start	1	End	1183
Name	OJ000322_05.0419.C33.o1.np	Method	AAT/NAP
Start	1	End	1183
GI	7444451	Score	1053
Exons	1..1183		
GI Descrip.	probable gag/pol polyprotein - long-staminate rice retrotransposon retrofit gi|2586082|gb|AAB82754.1| (U72725) retrofit [Oryza longistaminata]		

Seq. No.	55053	Seq. ID	OJ000322_05.0419.C33
Gene No.	115396	Strand	+
Start	1	End	1183

Name	OJ000322_05.0419.C33.o1.gs	Method	GENSCAN
Start	145	End	814
GI	none	Score	.52
Exons	145..424, 465..531, 769..814		

Seq. No.	55053	Seq. ID	OJ000322_05.0419.C33
Gene No.	115396	Strand	+
Start	1	End	1183
Name	OJ000322_05.0419.C33.o1.tw	Method	TBLASTX:Wheat
Start	352	End	737
GI	none	Score	60
Exons	352..540, 356..532, 356..718, 357..737, 402..719		

Seq. No.	55053	Seq. ID	OJ000322_05.0419.C33
Gene No.	115396	Strand	+
Start	1	End	1183
Name	OJ000322_05.0419.C33.o1.tm	Method	TBLASTX:Maize
Start	447	End	737
GI	none	Score	266
Exons	447..737, 521..736		

Seq. No.	55054	Seq. ID	OJ000322_05.0419.C34
Gene No.	115397	Strand	+
Start	1	End	2033
Name	OJ000322_05.0419.C34.o1.np	Method	AAT/NAP
Start	1	End	2033
GI	7444451	Score	2141
Exons	1..2033		
GI Descrip.	probable gag/pol polyprotein - long-staminate rice retrotransposon retrofit gi|2586082|gb|AAB82754.1| (U72725) retrofit [Oryza longistaminata]		

Seq. No.	55054	Seq. ID	OJ000322_05.0419.C34
Gene No.	115397	Strand	+
Start	1	End	2033
Name	OJ000322_05.0419.C34.o2.ts	Method	TBLASTX:Soybean
Start	496	End	1007
GI	5509260	Score	61
Exons	496..594, 600..917, 647..901, 912..1007, 920..979		
GI Descrip.	-		

Seq. No.	55054	Seq. ID	OJ000322_05.0419.C34
Gene No.	115397	Strand	+
Start	1	End	2033
Name	OJ000322_05.0419.C34.o4.tm	Method	TBLASTX:Maize
Start	590	End	809
GI	none	Score	178
Exons	590..799, 609..809		

Seq. No.	55054	Seq. ID	OJ000322_05.0419.C34
Gene No.	115397	Strand	+
Start	1	End	2033
Name	OJ000322_05.0419.C34.o1.tc	Method	TBLASTX:Cress
Start	627	End	896
GI	none	Score	284
Exons	627..896, 641..895		

Seq. No.	55054	Seq. ID	OJ000322_05.0419.C34
Gene No.	115397	Strand	+
Start	1	End	2033
Name	OJ000322_05.0419.C34.o2.tw	Method	TBLASTX:Wheat
Start	678	End	1181
GI	none	Score	200
Exons	678..920, 695..775, 836..901, 924..1016, 1008..1181		

Seq. No.	55054	Seq. ID	OJ000322_05.0419.C34
Gene No.	115397	Strand	+
Start	1	End	2033
Name	OJ000322_05.0419.C34.o2.tm	Method	TBLASTX:Maize
Start	810	End	1250
GI	none	Score	107
Exons	810..917, 833..901, 923..1114, 924..1250, 1157..1204		

Seq. No.	55054	Seq. ID	OJ000322_05.0419.C34
Gene No.	115397	Strand	+
Start	1	End	2033
Name	OJ000322_05.0419.C34.o3.tc	Method	TBLASTX:Cress
Start	1071	End	1319
GI	none	Score	194
Exons	1071..1319		

Seq. No.	55054	Seq. ID	OJ000322_05.0419.C34
Gene No.	115397	Strand	+
Start	1	End	2033
Name	OJ000322_05.0419.C34.o1.tw	Method	TBLASTX:Wheat
Start	1185	End	1622
GI	none	Score	426
Exons	1185..1622, 1190..1621		

Seq. No.	55054	Seq. ID	OJ000322_05.0419.C34
Gene No.	115397	Strand	+
Start	1	End	2033
Name	OJ000322_05.0419.C34.o3.tm	Method	TBLASTX:Maize
Start	1319	End	1511
GI	none	Score	287
Exons	1319..1510, 1320..1511		

Seq. No.	55054	Seq. ID	OJ000322_05.0419.C34
Gene No.	115397	Strand	+
Start	1	End	2033
Name	OJ000322_05.0419.C34.o1.ts	Method	TBLASTX:Soybean
Start	1386	End	2018
GI	none	Score	519
Exons	1386..2018, 1388..1513, 1580..1756, 1584..1904, 1808..1975		

Seq. No.	55054	Seq. ID	OJ000322_05.0419.C34
Gene No.	115397	Strand	+
Start	1	End	2033
Name	OJ000322_05.0419.C34.o1.tm	Method	TBLASTX:Maize
Start	1512	End	1976
GI	none	Score	39
Exons	1512..1574, 1553..1687, 1554..1682, 1688..1738, 1689..1976, 1710..1763, 1790..1975, 1809..1976		

Seq. No.	55054	Seq. ID	OJ000322_05.0419.C34
Gene No.	115397	Strand	+
Start	1	End	2033
Name	OJ000322_05.0419.C34.o2.tc	Method	TBLASTX:Cress
Start	1560	End	2009
GI	none	Score	62
Exons	1560..1649, 1658..1780, 1659..1781, 1815..2009		

Seq. No.	55055	Seq. ID	OJ000322_05.0419.C35
Gene No.	115398	Strand	+
Start	328	End	711
Name	OJ000322_05.0419.C35.o1.gp	Method	AAT/GAP
Start	328	End	711
GI	3409_1.R1084	Score	504
Exons	328..711		
GI Descrip.	'3281868/emb|CAA19764| 7.0e-47 (AL031004) putative protein [Arabidopsis thaliana]'		

Seq. No.	55056	Seq. ID	OJ000322_05.0419.C36
Gene No.	115399	Strand	-
Start	1	End	711
Name	OJ000322_05.0419.C36.o1.np	Method	AAT/NAP
Start	1	End	711
GI	3258569	Score	284
Exons	1..167, 258..459, 662..711		
GI Descrip.	(U89959) Similar to yeast general negative regulator of transcription subunit 1 [Arabidopsis thaliana]		

Seq. No.	55056	Seq. ID	OJ000322_05.0419.C36
Gene No.	115399	Strand	-
Start	1	End	711
Name	OJ000322_05.0419.C36.o1.tm	Method	TBLASTX:Maize
Start	55	End	514
GI	none	Score	125
Exons	55..168, 66..173, 67..168, 256..345, 257..355, 258..347, 347..424, 347..421, 351..431, 354..422, 435..500, 467..514, 473..505		

Seq. No.	55056	Seq. ID	OJ000322_05.0419.C36
Gene No.	115399	Strand	-
Start	1	End	711
Name	OJ000322_05.0419.C36.o1.tc	Method	TBLASTX:Cress
Start	66	End	321
GI	none	Score	66
Exons	66..158, 66..170, 67..168, 258..320, 268..321		

Seq. No.	55056	Seq. ID	OJ000322_05.0419.C36
Gene No.	115399	Strand	-
Start	1	End	711
Name	OJ000322_05.0419.C36.o1.gs	Method	GENSCAN
Start	287	End	499
GI	none	Score	.77
Exons	287..499		

Seq. No.	55057	Seq. ID	OJ000322_05.0419.C37
Gene No.	115400	Strand	+
Start	367	End	440

Name	OJ000322_05.0419.C37.o1.gs	Method	GENSCAN
Start	367	End	440
GI	none	Score	.91
Exons	367..440		

Seq. No.	55058	Seq. ID	OJ000322_05.0419.C39
Gene No.	115401	Strand	-
Start	279	End	753
Name	OJ000322_05.0419.C39.o1.gs	Method	GENSCAN
Start	279	End	753
GI	none	Score	.99
Exons	279..349, 540..753		

Seq. No.	55059	Seq. ID	OJ000322_05.0419.C41
Gene No.	115402	Strand	+
Start	462	End	580
Name	OJ000322_05.0419.C41.o1.gs	Method	GENSCAN
Start	462	End	580
GI	none	Score	.91
Exons	462..580		

Seq. No.	55059	Seq. ID	OJ000322_05.0419.C41
Gene No.	115403	Strand	+
Start	1383	End	1897
Name	OJ000322_05.0419.C41.o1.gp	Method	AAT/GAP
Start	1314	End	1762
GI	1050_1.R1084	Score	589
Exons	1314..1533, 1638..1762		
GI Descrip.	'2224915 1.0e-157 (U95968) beta-expansin [Oryza sativa]'		

Seq. No.	55059	Seq. ID	OJ000322_05.0419.C41
Gene No.	115403	Strand	+
Start	1383	End	1897
Name	OJ000322_05.0419.C41.o1.tw	Method	TBLASTX:Wheat
Start	1379	End	1751
GI	none	Score	43
Exons	1379..1426, 1392..1451, 1473..1535, 1475..1534, 1636..1746, 1637..1750, 1704..1751		

Seq. No.	55059	Seq. ID	OJ000322_05.0419.C41
Gene No.	115403	Strand	+
Start	1383	End	1897
Name	OJ000322_05.0419.C41.o1.np	Method	AAT/NAP
Start	1383	End	1897
GI	7489455	Score	423
Exons	1383..1533, 1638..1747, 1879..1897		
GI Descrip.	beta-expansin - rice gi|2224915|gb|AAB61710.1| (U95968) beta-expansin [Oryza sativa]		

Seq. No.	55059	Seq. ID	OJ000322_05.0419.C41
Gene No.	115403	Strand	+
Start	1383	End	1897
Name	OJ000322_05.0419.C41.o2.gs	Method	GENSCAN
Start	1383	End	1747
GI	none	Score	.93
Exons	1383..1533, 1638..1747		

Seq. No.	55059	Seq. ID	OJ000322_05.0419.C41
Gene No.	115403	Strand	+
Start	1383	End	1897
Name	OJ000322_05.0419.C41.o1.tm	Method	TBLASTX:Maize
Start	1437	End	1764
GI	none	Score	121
Exons	1437..1535, 1472..1534, 1631..1747, 1636..1764, 1637..1750		

Seq. No.	55060	Seq. ID	OJ000322_05.0419.C45
Gene No.	115404	Strand	-
Start	311	End	491
Name	OJ000322_05.0419.C45.o1.gs	Method	GENSCAN
Start	311	End	491
GI	none	Score	.5
Exons	311..491		

Seq. No.	55061	Seq. ID	OJ000322_05.0419.C48
Gene No.	115405	Strand	+
Start	693	End	1354
Name	OJ000322_05.0419.C48.o1.gs	Method	GENSCAN
Start	693	End	1354
GI	none	Score	.91
Exons	693..995, 1076..1135, 1242..1354		

Seq. No.	55062	Seq. ID	OJ000322_05.0419.C49
Gene No.	115406	Strand	+
Start	136	End	615
Name	OJ000322_05.0419.C49.o1.gp	Method	AAT/GAP
Start	136	End	615
GI	none	Score	925
Exons	136..615		

Seq. No.	55062	Seq. ID	OJ000322_05.0419.C49
Gene No.	115407	Strand	-
Start	498	End	4752
Name	OJ000322_05.0419.C49.o1.tm	Method	TBLASTX:Maize
Start	491	End	1017
GI	none	Score	78
Exons	491..1003, 492..575, 492..1007, 493..1017, 493..1008		

Seq. No.	55062	Seq. ID	OJ000322_05.0419.C49
Gene No.	115407	Strand	-
Start	498	End	4752
Name	OJ000322_05.0419.C49.o1.np	Method	AAT/NAP
Start	498	End	4752
GI	7485028	Score	1163
Exons	498..1030, 1380..1581, 2252..2513, 3342..3531, 4613..4752		
GI Descrip.	hypothetical protein - Arabidopsis thaliana gi|2245015|emb|CAB10435.1| (Z97341) glucosyltransferase like protein [Arabidopsis thaliana] gi|7268410|emb|CAB78702.1| (AL161544) glucosyltransferase like protein [Arabidopsis thaliana]		

Seq. No.	55062	Seq. ID	OJ000322_05.0419.C49
Gene No.	115407	Strand	-
Start	498	End	4752
Name	OJ000322_05.0419.C49.o2.ts	Method	TBLASTX:Soybean

Start	555	End	1038
GI	none	Score	146
Exons	555..710, 592..810, 665..811, 750..812, 807..932, 808..870, 930..1037, 931..1038		

Seq. No.	55062	Seq. ID	OJ000322_05.0419.C49
Gene No.	115407	Strand	-
Start	498	End	4752
Name	OJ000322_05.0419.C49.o1.tc	Method	TBLASTX:Cress
Start	930	End	1458
GI	none	Score	157
Exons	930..1037, 1140..1289, 1142..1288, 1160..1291, 1387..1458		

Seq. No.	55062	Seq. ID	OJ000322_05.0419.C49
Gene No.	115407	Strand	-
Start	498	End	4752
Name	OJ000322_05.0419.C49.o1.ts	Method	TBLASTX:Soybean
Start	1166	End	1588
GI	none	Score	140
Exons	1166..1288, 1167..1289, 1377..1559, 1377..1565, 1381..1584, 1382..1588, 1387..1581, 1391..1588		

Seq. No.	55062	Seq. ID	OJ000322_05.0419.C49
Gene No.	115407	Strand	-
Start	498	End	4752
Name	OJ000322_05.0419.C49.o2.tm	Method	TBLASTX:Maize
Start	1205	End	3487
GI	none	Score	96
Exons	1205..1288, 1206..1289, 1206..1289, 1377..1586, 1382..1582, 1387..1596, 2252..2437, 2256..2402, 2256..2438, 2257..2403, 2456..2509, 3341..3487, 3345..3485		

Seq. No.	55062	Seq. ID	OJ000322_05.0419.C49
Gene No.	115407	Strand	-
Start	498	End	4752
Name	OJ000322_05.0419.C49.o1.tw	Method	TBLASTX:Wheat
Start	1214	End	2308
GI	none	Score	53
Exons	1214..1288, 1215..1262, 1371..1583, 1385..1594, 1387..1596, 2252..2308, 2253..2306		

Seq. No.	55062	Seq. ID	OJ000322_05.0419.C49
Gene No.	115407	Strand	-
Start	498	End	4752
Name	OJ000322_05.0419.C49.o2.gs	Method	GENSCAN
Start	1375	End	3664
GI	none	Score	.95
Exons	1375..1581, 2252..2513, 3342..3664		

Seq. No.	55062	Seq. ID	OJ000322_05.0419.C49
Gene No.	115407	Strand	-
Start	498	End	4752
Name	OJ000322_05.0419.C49.o2.gp	Method	AAT/GAP
Start	2220	End	3515
GI	uC-osflcyp172h02b1	Score	806
Exons	2220..2513, 3342..3515		
GI Descrip.	'2245015/emb|CAB10435.1| 3.0e-55 (Z97341) glucosyltransferase		

like protein [Arabidopsis thaliana]'

Seq. No.	55062	Seq. ID	OJ000322_05.0419.C49
Gene No.	115407	Strand	-
Start	498	End	4752
Name	OJ000322_05.0419.C49.o2.tc	Method	TBLASTX:Cress
Start	2405	End	3518
GI	none	Score	156
Exons	2405..2437, 2459..2509, 3341..3517, 3351..3518		

Seq. No.	55062	Seq. ID	OJ000322_05.0419.C49
Gene No.	115407	Strand	-
Start	498	End	4752
Name	OJ000322_05.0419.C49.o3.ts	Method	TBLASTX:Soybean
Start	2456	End	3502
GI	none	Score	131
Exons	2456..2509, 3341..3502, 3345..3497		

Seq. No.	55063	Seq. ID	OJ000322_05.0419.C50
Gene No.	115408	Strand	+
Start	775	End	938
Name	OJ000322_05.0419.C50.o1.np	Method	AAT/NAP
Start	775	End	938
GI	6069646	Score	121
Exons	775..938		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	55063	Seq. ID	OJ000322_05.0419.C50
Gene No.	115409	Strand	-
Start	429	End	3947
Name	OJ000322_05.0419.C50.o1.gs	Method	GENSCAN
Start	429	End	3947
GI	none	Score	.62
Exons	429..657, 1353..1575, 1788..1791, 3026..3261, 3393..3514, 3675..3816, 3818..3947		

Seq. No.	55064	Seq. ID	OJ000322_07.0419.C3
Gene No.	115410	Strand	+
Start	1951	End	6661
Name	OJ000322_07.0419.C3.o1.gs	Method	GENSCAN
Start	1951	End	3119
GI	none	Score	.59
Exons	1951..2348, 2461..2676, 3044..3119		

Seq. No.	55064	Seq. ID	OJ000322_07.0419.C3
Gene No.	115410	Strand	+
Start	1951	End	6661
Name	OJ000322_07.0419.C3.o1.np	Method	AAT/NAP
Start	2233	End	4610
GI	4585884	Score	384
Exons	2233..2274, 3786..4065, 4156..4610		
GI Descrip.	(AC005850) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55064	Seq. ID	OJ000322_07.0419.C3
Gene No.	115410	Strand	+
Start	1951	End	6661
Name	OJ000322_07.0419.C3.o2.gs	Method	GENSCAN
Start	3486	End	6661
GI	none	Score	.48
Exons	3486..4065, 4156..4446, 5789..5901, 6641..6661		

Seq. No.	55064	Seq. ID	OJ000322_07.0419.C3
Gene No.	115410	Strand	+
Start	1951	End	6661
Name	OJ000322_07.0419.C3.o1.tw	Method	TBLASTX:Wheat
Start	3762	End	4067
GI	none	Score	332
Exons	3762..4067, 3808..4059, 3821..4066, 3945..4067		

Seq. No.	55064	Seq. ID	OJ000322_07.0419.C3
Gene No.	115410	Strand	+
Start	1951	End	6661
Name	OJ000322_07.0419.C3.o2.tm	Method	TBLASTX:Maize
Start	3774	End	4184
GI	none	Score	201
Exons	3774..4031, 3929..4015, 4155..4184		

Seq. No.	55064	Seq. ID	OJ000322_07.0419.C3
Gene No.	115410	Strand	+
Start	1951	End	6661
Name	OJ000322_07.0419.C3.o1.ts	Method	TBLASTX:Soybean
Start	4140	End	4480
GI	none	Score	138
Exons	4140..4244, 4151..4243, 4247..4480, 4251..4454		

Seq. No.	55064	Seq. ID	OJ000322_07.0419.C3
Gene No.	115410	Strand	+
Start	1951	End	6661
Name	OJ000322_07.0419.C3.o1.tm	Method	TBLASTX:Maize
Start	4185	End	4453
GI	none	Score	410
Exons	4185..4442, 4185..4442, 4186..4443, 4187..4453		

Seq. No.	55065	Seq. ID	OJ000322_07.0419.C4
Gene No.	115411	Strand	+
Start	172	End	1177
Name	OJ000322_07.0419.C4.o1.gs	Method	GENSCAN
Start	172	End	1177
GI	none	Score	.94
Exons	172..231, 791..1177		

Seq. No.	55065	Seq. ID	OJ000322_07.0419.C4
Gene No.	115412	Strand	+
Start	1431	End	1762
Name	OJ000322_07.0419.C4.o1.gp	Method	AAT/GAP
Start	1431	End	1762
GI	none	Score	601
Exons	1431..1762		

Seq. No.	55065	Seq. ID	OJ000322_07.0419.C4

Gene No.	115413	Strand	+
Start	10223	End	10639
Name	OJ000322_07.0419.C4.o2.np	Method	AAT/NAP
Start	10223	End	10639
GI	7486422	Score	295
Exons	10223..10639		
GI Descrip.	hypothetical protein F4I1.12 - Arabidopsis thaliana gi|3128177|gb|AAC16081.1| (AC004521) unknown protein [Arabidopsis thaliana]		

Seq. No.	55065	Seq. ID	OJ000322_07.0419.C4
Gene No.	115413	Strand	+
Start	10223	End	10639
Name	OJ000322_07.0419.C4.o3.gs	Method	GENSCAN
Start	10223	End	10630
GI	none	Score	1
Exons	10223..10630		

Seq. No.	55065	Seq. ID	OJ000322_07.0419.C4
Gene No.	115414	Strand	-
Start	1441	End	3247
Name	OJ000322_07.0419.C4.o1.np	Method	AAT/NAP
Start	1441	End	2314
GI	7484725	Score	509
Exons	1441..1469, 1553..2314		
GI Descrip.	hypothetical protein - upland cotton gi|606942|gb|AAA79366.1| (U13760) unknown [Gossypium hirsutum]		

Seq. No.	55065	Seq. ID	OJ000322_07.0419.C4
Gene No.	115414	Strand	-
Start	1441	End	3247
Name	OJ000322_07.0419.C4.o2.gp	Method	AAT/GAP
Start	1919	End	3247
GI	uC-osrocyp005e09b1	Score	894
Exons	1919..2346, 3213..3247		
GI Descrip.	'4544419/gb|AAD22328.1|AC006955_14 2.0e-23 (AC006955) unknown protein [Arabidopsis thaliana]'		

Seq. No.	55065	Seq. ID	OJ000322_07.0419.C4
Gene No.	115415	Strand	-
Start	11367	End	16648
Name	OJ000322_07.0419.C4.o2.tm	Method	TBLASTX:Maize
Start	1644	End	2186
GI	none	Score	202
Exons	1644..1916, 1730..1915, 1922..2074, 1932..2069, 2061..2150, 2066..2185, 2067..2186		

Seq. No.	55065	Seq. ID	OJ000322_07.0419.C4
Gene No.	115415	Strand	-
Start	11367	End	16648
Name	OJ000322_07.0419.C4.o2.tc	Method	TBLASTX:Cress
Start	1730	End	2186
GI	none	Score	124
Exons	1730..1912, 1731..1907, 1922..2185, 1929..2186		

Seq. No.	55065	Seq. ID	OJ000322_07.0419.C4
Gene No.	115415	Strand	-

Start	11367	End	16648
Name	OJ000322_07.0419.C4.o2.ts	Method	TBLASTX:Soybean
Start	1730	End	2183
GI	none	Score	129
Exons	1730..1909, 1731..1910, 1907..2182, 1926..2183		

Seq. No.	55065	Seq. ID	OJ000322_07.0419.C4
Gene No.	115415	Strand	-
Start	11367	End	16648
Name	OJ000322_07.0419.C4.o3.tw	Method	TBLASTX:Wheat
Start	10214	End	10390
GI	none	Score	212
Exons	10214..10378, 10217..10390		

Seq. No.	55065	Seq. ID	OJ000322_07.0419.C4
Gene No.	115415	Strand	-
Start	11367	End	16648
Name	OJ000322_07.0419.C4.o4.tm	Method	TBLASTX:Maize
Start	10215	End	10498
GI	none	Score	91
Exons	10215..10319, 10223..10399, 10223..10387, 10436..10498		

Seq. No.	55065	Seq. ID	OJ000322_07.0419.C4
Gene No.	115415	Strand	-
Start	11367	End	16648
Name	OJ000322_07.0419.C4.o3.ts	Method	TBLASTX:Soybean
Start	10219	End	10612
GI	none	Score	179
Exons	10219..10287, 10223..10399, 10436..10612, 10480..10587		

Seq. No.	55065	Seq. ID	OJ000322_07.0419.C4
Gene No.	115415	Strand	-
Start	11367	End	16648
Name	OJ000322_07.0419.C4.o3.tc	Method	TBLASTX:Cress
Start	10220	End	10579
GI	none	Score	175
Exons	10220..10399, 10436..10579		

Seq. No.	55065	Seq. ID	OJ000322_07.0419.C4
Gene No.	115415	Strand	-
Start	11367	End	16648
Name	OJ000322_07.0419.C4.o3.gp	Method	AAT/GAP
Start	11050	End	12448
GI	413_3.R1084	Score	2127
Exons	11050..11504, 11597..11807, 11901..12267, 12363..12448		
GI Descrip.	'2754849 1.0e-133 (AF039000) putative serine-glyoxylate aminotransferase [Fritillaria agrestis]'		

Seq. No.	55065	Seq. ID	OJ000322_07.0419.C4
Gene No.	115415	Strand	-
Start	11367	End	16648
Name	OJ000322_07.0419.C4.o1.ts	Method	TBLASTX:Soybean
Start	11355	End	13053
GI	none	Score	149
Exons	11355..11495, 11362..11505, 11594..11809, 11598..11633, 11682..11810, 11877..12257, 11888..12268, 12364..12648, 12365..12457, 12515..12649, 12888..13052, 12895..13053		

Seq. No.	55065	Seq. ID	OJ000322_07.0419.C4
Gene No.	115415	Strand	-
Start	11367	End	16648
Name	OJ000322_07.0419.C4.o1.tc	Method	TBLASTX:Cress
Start	11364	End	13062
GI	none	Score	99
Exons	11364..11495, 11371..11505, 11594..11809, 11597..11704, 11688..11810, 11886..12260, 11888..12268, 12033..12275, 12364..12648, 12365..12442, 12515..12649, 12888..13061, 12895..13062		

Seq. No.	55065	Seq. ID	OJ000322_07.0419.C4
Gene No.	115415	Strand	-
Start	11367	End	16648
Name	OJ000322_07.0419.C4.o4.gs	Method	GENSCAN
Start	11367	End	16648
GI	none	Score	.54
Exons	11367..11504, 11597..11807, 11901..12267, 12363..12647, 12851..13062, 14917..15022, 15630..15794, 16558..16648		

Seq. No.	55065	Seq. ID	OJ000322_07.0419.C4
Gene No.	115415	Strand	-
Start	11367	End	16648
Name	OJ000322_07.0419.C4.o3.np	Method	AAT/NAP
Start	11370	End	13055
GI	2754849	Score	1711
Exons	11370..11504, 11597..11807, 11901..12267, 12363..12647, 12851..13055		
GI Descrip.	(AF039000) putative serine-glyoxylate aminotransferase [Fritillaria agrestis]		

Seq. No.	55065	Seq. ID	OJ000322_07.0419.C4
Gene No.	115415	Strand	-
Start	11367	End	16648
Name	OJ000322_07.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	11425	End	12525
GI	none	Score	98
Exons	11425..11505, 11427..11495, 11442..11585, 11594..11809, 11595..11633, 11597..11809, 11682..11810, 11886..12272, 11888..12268, 12364..12453, 12374..12457, 12454..12525		

Seq. No.	55065	Seq. ID	OJ000322_07.0419.C4
Gene No.	115415	Strand	-
Start	11367	End	16648
Name	OJ000322_07.0419.C4.o1.tw	Method	TBLASTX:Wheat
Start	11427	End	12017
GI	none	Score	104
Exons	11427..11546, 11427..11495, 11594..11638, 11595..11633, 11597..11641, 11645..11809, 11682..11810, 11796..12017, 11900..12016		

Seq. No.	55065	Seq. ID	OJ000322_07.0419.C4
Gene No.	115415	Strand	-
Start	11367	End	16648
Name	OJ000322_07.0419.C4.o2.tw	Method	TBLASTX:Wheat
Start	12442	End	13059

GI	none	Score	195
Exons	12442..12648, 12515..12649, 12888..13052, 12895..13059		

Seq. No.	55065	Seq. ID	OJ000322_07.0419.C4
Gene No.	115415	Strand	-
Start	11367	End	16648
Name	OJ000322_07.0419.C4.o4.gp	Method	AAT/GAP
Start	12497	End	13109
GI	LIB3431-060-P1-K1-E4	Score	689
Exons	12497..12647, 12851..13109		
GI Descrip.	'3288821 2.0e-49 (AF063901) alanine:glyoxylate aminotransferase; transaminase [Arabidopsis thaliana] >gi_4733989_gb_AAD28669.1_AC007209_5 (AC007209) alanine-glyoxylate aminotransferase [Arabidopsis thaliana]'		

Seq. No.	55065	Seq. ID	OJ000322_07.0419.C4
Gene No.	115415	Strand	-
Start	11367	End	16648
Name	OJ000322_07.0419.C4.o3.tm	Method	TBLASTX:Maize
Start	12526	End	13771
GI	none	Score	215
Exons	12526..12648, 12527..12649, 12886..13059, 12888..13064, 12895..13065, 13721..13765, 13723..13770, 13725..13769, 13727..13771		

Seq. No.	55066	Seq. ID	OJ000322_07.0419.C5
Gene No.	115416	Strand	+
Start	1	End	727
Name	OJ000322_07.0419.C5.o1.np	Method	AAT/NAP
Start	1	End	446
GI	7486067	Score	59
Exons	1..24, 214..446		
GI Descrip.	hypothetical protein F24G24.100 - Arabidopsis thaliana gi|4538959|emb|CAB39783.1| (AL049488) putative protein [Arabidopsis thaliana] gi|7267727|emb|CAB78153.1| (AL161517) putative protein [Arabidopsis thaliana]		

Seq. No.	55066	Seq. ID	OJ000322_07.0419.C5
Gene No.	115416	Strand	+
Start	1	End	727
Name	OJ000322_07.0419.C5.o1.gs	Method	GENSCAN
Start	269	End	727
GI	none	Score	.47
Exons	269..335, 509..727		

Seq. No.	55067	Seq. ID	OJ000322_07.0419.C6
Gene No.	115417	Strand	-
Start	260	End	575
Name	OJ000322_07.0419.C6.o1.gs	Method	GENSCAN
Start	260	End	575
GI	none	Score	.48
Exons	260..402, 454..575		

Seq. No.	55068	Seq. ID	OJ000322_07.0419.C7
Gene No.	115418	Strand	-
Start	1	End	859
Name	OJ000322_07.0419.C7.o1.np	Method	AAT/NAP

Start	1	End	859
GI	1857988	Score	87
Exons	1..204, 726..859		
GI Descrip.	(U88872) fibrillin-1 [Gallus gallus]		

Seq. No.	55068	Seq. ID	OJ000322_07.0419.C7
Gene No.	115418	Strand	-
Start	1	End	859
Name	OJ000322_07.0419.C7.o1.gs	Method	GENSCAN
Start	64	End	854
GI	none	Score	.92
Exons	64..204, 726..854		

Seq. No.	55069	Seq. ID	OJ000322_07.0419.C12
Gene No.	115419	Strand	+
Start	69	End	173
Name	OJ000322_07.0419.C12.o1.gs	Method	GENSCAN
Start	69	End	173
GI	none	Score	.4
Exons	69..173		

Seq. No.	55070	Seq. ID	OJ000322_07.0419.C14
Gene No.	115420	Strand	-
Start	734	End	6770
Name	OJ000322_07.0419.C14.o2.ts	Method	TBLASTX:Soybean
Start	692	End	2428
GI	none	Score	135
Exons	692..850, 962..1099, 970..1098, 1301..1483, 1305..1484, 2163..2252, 2168..2230, 2335..2427, 2342..2428		

Seq. No.	55070	Seq. ID	OJ000322_07.0419.C14
Gene No.	115420	Strand	-
Start	734	End	6770
Name	OJ000322_07.0419.C14.o2.tc	Method	TBLASTX:Cress
Start	728	End	2431
GI	none	Score	114
Exons	728..787, 803..859, 968..1099, 968..1096, 970..1098, 1299..1472, 1301..1483, 1328..1483, 2159..2230, 2160..2231, 2335..2430, 2342..2431		

Seq. No.	55070	Seq. ID	OJ000322_07.0419.C14
Gene No.	115420	Strand	-
Start	734	End	6770
Name	OJ000322_07.0419.C14.o1.gs	Method	GENSCAN
Start	734	End	6752
GI	none	Score	.57
Exons	734..847, 970..1096, 1305..1481, 2121..2232, 2331..2565, 2584..2848, 2989..3113, 3455..3591, 3635..3674, 3767..4816, 5077..5172, 5275..5361, 5445..5525, 6191..6403, 6506..6752		

Seq. No.	55070	Seq. ID	OJ000322_07.0419.C14
Gene No.	115420	Strand	-
Start	734	End	6770
Name	OJ000322_07.0419.C14.o1.np	Method	AAT/NAP
Start	737	End	4204
GI	1709923	Score	695
Exons	737..847, 970..1096, 1305..1481, 2121..2232, 2331..2460,		

	4175..4204
GI Descrip.	PHOSPHORIBOSYLGLYCINAMIDE FORMYLTRANSFERASE PRECURSOR (GART) (GAR TRANSFORMYLASE) (5'-PHOSPHORIBOSYLGLYCINAMIDE TRANSFORMYLASE) gi|7433568|pir||T11574 phosphoribosylglycinamide formyltransferase (EC 2.1.2.2) - cowpea gi|984818|gb|AAA75367.1| (U30875) glycinamide ribonucleotide transformylase (GART) [Vigna unguiculata]

Seq. No.	55070	Seq. ID	OJ000322_07.0419.C14
Gene No.	115420	Strand	-
Start	734	End	6770
Name	OJ000322_07.0419.C14.o3.tm	Method	TBLASTX:Maize
Start	1314	End	2213
GI	none	Score	190
Exons	1314..1484, 1316..1471, 1319..1501, 1320..1484, 2120..2194, 2121..2213, 2144..2212		

Seq. No.	55070	Seq. ID	OJ000322_07.0419.C14
Gene No.	115420	Strand	-
Start	734	End	6770
Name	OJ000322_07.0419.C14.o1.ts	Method	TBLASTX:Soybean
Start	3372	End	4150
GI	none	Score	120
Exons	3372..3539, 3395..3535, 3594..3662, 3767..3946, 3771..3947, 3929..4021, 4127..4150		

Seq. No.	55070	Seq. ID	OJ000322_07.0419.C14
Gene No.	115420	Strand	-
Start	734	End	6770
Name	OJ000322_07.0419.C14.o2.tm	Method	TBLASTX:Maize
Start	3386	End	3988
GI	none	Score	204
Exons	3386..3535, 3387..3539, 3388..3543, 3603..3677, 3637..3675, 3780..3887, 3782..3856, 3789..3872, 3839..3988, 3870..3959, 3874..3984		

Seq. No.	55070	Seq. ID	OJ000322_07.0419.C14
Gene No.	115420	Strand	-
Start	734	End	6770
Name	OJ000322_07.0419.C14.o2.tw	Method	TBLASTX:Wheat
Start	3766	End	3936
GI	none	Score	195
Exons	3766..3930, 3767..3934, 3768..3935, 3769..3936		

Seq. No.	55070	Seq. ID	OJ000322_07.0419.C14
Gene No.	115420	Strand	-
Start	734	End	6770
Name	OJ000322_07.0419.C14.o1.tw	Method	TBLASTX:Wheat
Start	3976	End	4567
GI	none	Score	69
Exons	3976..4059, 3977..4042, 4000..4050, 4114..4143, 4117..4155, 4118..4150, 4131..4217, 4132..4206, 4133..4234, 4154..4234, 4229..4249, 4232..4318, 4241..4402, 4241..4399, 4276..4428, 4278..4436, 4278..4526, 4279..4527, 4517..4567		

Seq. No.	55070	Seq. ID	OJ000322_07.0419.C14
Gene No.	115420	Strand	-

Start	734	End	6770
Name	OJ000322_07.0419.C14.o1.tm	Method	TBLASTX:Maize
Start	4115	End	6770
GI	none	Score	105
Exons	4115..4177, 4283..4420, 4287..4406, 4288..4416, 4292..4327, 4462..4572, 4478..4543, 4582..4818, 4608..4820, 4610..4819, 4903..4956, 4907..4963, 4911..4964, 5065..5175, 5073..5174, 5078..5179, 5275..5409, 5276..5362, 5445..5465, 5466..5528, 5467..5526, 5472..5528, 6179..6406, 6180..6404, 6191..6415, 6193..6414, 6485..6757, 6507..6758, 6510..6770		

Seq. No.	55070	Seq. ID	OJ000322_07.0419.C14
Gene No.	115420	Strand	-
Start	734	End	6770
Name	OJ000322_07.0419.C14.o1.gp	Method	AAT/GAP
Start	4134	End	4682
GI	none	Score	996
Exons	4134..4682		

Seq. No.	55070	Seq. ID	OJ000322_07.0419.C14
Gene No.	115420	Strand	-
Start	734	End	6770
Name	OJ000322_07.0419.C14.o2.np	Method	AAT/NAP
Start	4622	End	6691
GI	7493180	Score	96
Exons	4622..4816, 4910..4963, 5077..5172, 5275..5361, 5445..5522, 6506..6691		
GI Descrip.	probable zinc metalloproteinase - fission yeast (Schizosaccharomyces pombe) gi|3790252|emb|CAA21441.1| (AL031966) putative Zn-protease [Schizosaccharomyces pombe]		

Seq. No.	55070	Seq. ID	OJ000322_07.0419.C14
Gene No.	115420	Strand	-
Start	734	End	6770
Name	OJ000322_07.0419.C14.o2.gp	Method	AAT/GAP
Start	4687	End	4976
GI	none	Score	326
Exons	4687..4816, 4910..4976		

Seq. No.	55070	Seq. ID	OJ000322_07.0419.C14
Gene No.	115420	Strand	-
Start	734	End	6770
Name	OJ000322_07.0419.C14.o1.tc	Method	TBLASTX:Cress
Start	4727	End	5483
GI	none	Score	63
Exons	4727..4819, 4758..4817, 4907..4963, 4910..4960, 5077..5175, 5078..5182, 5275..5364, 5276..5362, 5445..5483		

Seq. No.	55070	Seq. ID	OJ000322_07.0419.C14
Gene No.	115420	Strand	-
Start	734	End	6770
Name	OJ000322_07.0419.C14.o3.gp	Method	AAT/GAP
Start	4730	End	5024
GI	none	Score	238
Exons	4730..4816, 4910..5024		

Seq. No.	55070	Seq. ID	OJ000322_07.0419.C14

Gene No.	115420	Strand	-
Start	734	End	6770
Name	OJ000322_07.0419.C14.o3.ts	Method	TBLASTX:Soybean
Start	6296	End	6770
GI	none	Score	40
Exons	6296..6337, 6300..6335, 6338..6412, 6354..6395, 6492..6770, 6500..6721		

Seq. No.	55071	Seq. ID	OJ000322_07.0419.C15
Gene No.	115421	Strand	+
Start	1700	End	1881
Name	OJ000322_07.0419.C15.o1.gs	Method	GENSCAN
Start	1700	End	1881
GI	none	Score	.88
Exons	1700..1881		

Seq. No.	55071	Seq. ID	OJ000322_07.0419.C15
Gene No.	115422	Strand	-
Start	66	End	317
Name	OJ000322_07.0419.C15.o1.gp	Method	AAT/GAP
Start	66	End	317
GI	none	Score	484
Exons	66..317		

Seq. No.	55072	Seq. ID	OJ000322_07.0419.C16
Gene No.	115423	Strand	+
Start	68	End	4345
Name	OJ000322_07.0419.C16.o1.gs	Method	GENSCAN
Start	68	End	4341
GI	none	Score	.94
Exons	68..169, 336..465, 1532..1954, 2791..4341		

Seq. No.	55072	Seq. ID	OJ000322_07.0419.C16
Gene No.	115423	Strand	+
Start	68	End	4345
Name	OJ000322_07.0419.C16.o1.np	Method	AAT/NAP
Start	340	End	4338
GI	417154	Score	3499
Exons	340..465, 1532..1954, 2791..4338		
GI Descrip.	HEAT SHOCK PROTEIN 82 gi|100685|pir||S25541 heat shock protein 82 - rice (strain Taichung Native One) gi|20256|emb|CAA77978| (Z11920) heat shock protein 82 (HSP82) [Oryza sativa]		

Seq. No.	55072	Seq. ID	OJ000322_07.0419.C16
Gene No.	115423	Strand	+
Start	68	End	4345
Name	OJ000322_07.0419.C16.o1.gp	Method	AAT/GAP
Start	2859	End	4345
GI	269_1.R1084	Score	2722
Exons	2859..4345		
GI Descrip.	'417154/sp|P33126|HS82_ORYSA 0.0e+00 HEAT SHOCK PROTEIN 82 >gi_100685_pir__S25541 heat shock protein 82 - rice (strain Taichung Native One) >gi_20256_emb_CAA77978_ (Z11920) heat shock protein 82 (HSP82) [Oryza sativa]'		

Seq. No.	55072	Seq. ID	OJ000322_07.0419.C16
Gene No.	115424	Strand	+

Start	7792	End	8213
Name	OJ000322_07.0419.C16.o2.gp	Method	AAT/GAP
Start	7792	End	8213
GI	LIB3477-003-P1-K1-E9	Score	107
Exons	7792..7856, 8184..8213		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	55072	Seq. ID	OJ000322_07.0419.C16
Gene No.	115425	Strand	-
Start	5767	End	10161
Name	OJ000322_07.0419.C16.o1.ts	Method	TBLASTX:Soybean
Start	316	End	4341
GI	none	Score	155
Exons	316..465, 363..464, 369..467, 379..465, 1529..1636, 1532..1633, 1537..1635, 1634..1693, 1644..1667, 1675..1764, 1679..1780, 1682..1768, 1760..1957, 1768..1944, 1824..1961, 2797..2871, 2799..2909, 3021..3224, 3021..3212, 3022..3255, 3083..3217, 3085..3255, 3274..3339, 3346..3411, 3348..3644, 3348..3419, 3349..3780, 3449..3619, 3472..3630, 3609..3665, 3722..3763, 3760..3795, 3767..3814, 3880..4254, 3892..4089, 3942..4226, 4300..4341		

Seq. No.	55072	Seq. ID	OJ000322_07.0419.C16
Gene No.	115425	Strand	-
Start	5767	End	10161
Name	OJ000322_07.0419.C16.o1.tc	Method	TBLASTX:Cress
Start	331	End	4341
GI	none	Score	189
Exons	331..465, 348..467, 354..464, 1532..1957, 1575..1700, 1581..1958, 1600..1944, 1824..1946, 2788..2871, 2788..2886, 2793..2909, 2840..2893, 2997..3644, 3007..3795, 3008..3619, 3472..3630, 3609..3665, 3719..3799, 3750..4226, 3880..4311, 4306..4341		

Seq. No.	55072	Seq. ID	OJ000322_07.0419.C16
Gene No.	115425	Strand	-
Start	5767	End	10161
Name	OJ000322_07.0419.C16.o3.tw	Method	TBLASTX:Wheat
Start	333	End	1777
GI	none	Score	208
Exons	333..467, 351..464, 379..465, 1532..1774, 1534..1776, 1535..1777		

Seq. No.	55072	Seq. ID	OJ000322_07.0419.C16
Gene No.	115425	Strand	-
Start	5767	End	10161
Name	OJ000322_07.0419.C16.o1.tm	Method	TBLASTX:Maize
Start	336	End	4350
GI	none	Score	204
Exons	336..467, 351..464, 379..465, 1532..1957, 1575..1700, 1597..1944, 1755..1952, 2788..2871, 2797..2886, 2843..2899, 2997..3644, 3007..3795, 3008..3034, 3018..3212, 3083..3616, 3472..3630, 3483..3665, 3719..3802, 3750..4232, 3880..4350, 4312..4344		

Seq. No.	55072	Seq. ID	OJ000322_07.0419.C16

Gene No.	115425	Strand	-
Start	5767	End	10161
Name	OJ000322_07.0419.C16.o2.tw	Method	TBLASTX:Wheat
Start	2788	End	3237
GI	none	Score	139
Exons	2788..2874, 2788..2886, 2793..2903, 2840..2899, 2997..3236, 3007..3237, 3008..3034, 3018..3212, 3085..3237		

Seq. No.	55072	Seq. ID	OJ000322_07.0419.C16
Gene No.	115425	Strand	-
Start	5767	End	10161
Name	OJ000322_07.0419.C16.o1.tw	Method	TBLASTX:Wheat
Start	3315	End	4140
GI	none	Score	408
Exons	3315..3644, 3315..3419, 3316..3795, 3449..3616, 3472..3630, 3483..3665, 3719..3817, 3880..4140, 3892..4089, 3942..4139		

Seq. No.	55072	Seq. ID	OJ000322_07.0419.C16
Gene No.	115425	Strand	-
Start	5767	End	10161
Name	OJ000322_07.0419.C16.o3.np	Method	AAT/NAP
Start	5282	End	10161
GI	7339484	Score	257
Exons	5282..5349, 9607..10161		
GI Descrip.	(AL162459) DNA-binding protein-like [Arabidopsis thaliana]		

Seq. No.	55072	Seq. ID	OJ000322_07.0419.C16
Gene No.	115425	Strand	-
Start	5767	End	10161
Name	OJ000322_07.0419.C16.o2.gs	Method	GENSCAN
Start	5767	End	7470
GI	none	Score	.96
Exons	5767..7470		

Seq. No.	55072	Seq. ID	OJ000322_07.0419.C16
Gene No.	115425	Strand	-
Start	5767	End	10161
Name	OJ000322_07.0419.C16.o2.np	Method	AAT/NAP
Start	5768	End	8700
GI	5738365	Score	851
Exons	5768..6880, 7070..7429, 8596..8700		
GI Descrip.	(AL021711) putative protein [Arabidopsis thaliana]		

Seq. No.	55072	Seq. ID	OJ000322_07.0419.C16
Gene No.	115425	Strand	-
Start	5767	End	10161
Name	OJ000322_07.0419.C16.o2.tm	Method	TBLASTX:Maize
Start	5779	End	7131
GI	none	Score	126
Exons	5779..5949, 5923..6375, 5948..6262, 6066..6119, 6181..6375, 6193..6363, 6202..6375, 6413..6544, 6415..6690, 6442..6540, 6520..6708, 6520..6690, 6529..6693, 6529..6618, 6622..6690, 6631..6783, 6664..6786, 6715..6801, 6760..6975, 6802..6975, 6814..6978, 6822..6863, 6862..6924, 6901..6984, 6907..6990, 6955..6990, 7012..7131		

Seq. No.	55072	Seq. ID	OJ000322_07.0419.C16

Gene No.	115425	Strand	-
Start	5767	End	10161
Name	OJ000322_07.0419.C16.o2.ts	Method	TBLASTX:Soybean
Start	5953	End	6252
GI	none	Score	118
Exons	5953..6219, 5953..6252, 6059..6250		

Seq. No.	55072	Seq. ID	OJ000322_07.0419.C16
Gene No.	115425	Strand	-
Start	5767	End	10161
Name	OJ000322_07.0419.C16.o4.tw	Method	TBLASTX:Wheat
Start	6068	End	6987
GI	none	Score	143
Exons	6068..6385, 6070..6384, 6130..6246, 6160..6222, 6400..6519, 6416..6514, 6439..6522, 6526..6702, 6607..6819, 6814..6987		

Seq. No.	55072	Seq. ID	OJ000322_07.0419.C16
Gene No.	115425	Strand	-
Start	5767	End	10161
Name	OJ000322_07.0419.C16.o2.tc	Method	TBLASTX:Cress
Start	6094	End	7138
GI	none	Score	57
Exons	6094..6225, 6122..6199, 6130..6339, 6214..6384, 6217..6384, 6217..6372, 6226..6402, 6397..6516, 6397..6516, 6442..6687, 6520..6633, 6520..6783, 6535..6804, 6610..6729, 6613..6780, 6715..6804, 6811..6843, 6811..6990, 6814..6987, 6814..6996, 6872..6991, 6997..7137, 7079..7138		

Seq. No.	55072	Seq. ID	OJ000322_07.0419.C16
Gene No.	115425	Strand	-
Start	5767	End	10161
Name	OJ000322_07.0419.C16.o3.ts	Method	TBLASTX:Soybean
Start	6274	End	6996
GI	none	Score	76
Exons	6274..6351, 6487..6735, 6511..6651, 6578..6733, 6604..6801, 6610..6786, 6805..6996, 6808..6936, 6889..6990		

Seq. No.	55072	Seq. ID	OJ000322_07.0419.C16
Gene No.	115425	Strand	-
Start	5767	End	10161
Name	OJ000322_07.0419.C16.o3.gs	Method	GENSCAN
Start	8436	End	10112
GI	none	Score	.97
Exons	8436..10112		

Seq. No.	55072	Seq. ID	OJ000322_07.0419.C16
Gene No.	115425	Strand	-
Start	5767	End	10161
Name	OJ000322_07.0419.C16.o3.gp	Method	AAT/GAP
Start	9060	End	9446
GI	568457	Score	767
Exons	9060..9446		

Seq. No.	55073	Seq. ID	OJ000322_07.0419.C17
Gene No.	115426	Strand	-
Start	1187	End	1586
Name	OJ000322_07.0419.C17.o1.gs	Method	GENSCAN

Start	1187	End	1586
GI	none	Score	.76
Exons	1187..1221, 1559..1586		

Seq. No.	55074	Seq. ID	OJ000322_07.0419.C19
Gene No.	115427	Strand	+
Start	569	End	2220
Name	OJ000322_07.0419.C19.o1.np	Method	AAT/NAP
Start	569	End	2220
GI	4826399	Score	158
Exons	569..1307, 1337..1455, 2184..2220		
GI Descrip.	(AJ012423) wall-associated kinase 2 [Arabidopsis thaliana]		

Seq. No.	55075	Seq. ID	OJ000322_07.0419.C20
Gene No.	115428	Strand	+
Start	1	End	1725
Name	OJ000322_07.0419.C20.o1.np	Method	AAT/NAP
Start	1	End	1725
GI	6665543	Score	765
Exons	1..1107, 1582..1725		
GI Descrip.	(AC013289) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	55075	Seq. ID	OJ000322_07.0419.C20
Gene No.	115428	Strand	+
Start	1	End	1725
Name	OJ000322_07.0419.C20.o1.tc	Method	TBLASTX:Cress
Start	78	End	1054
GI	none	Score	95
Exons	78..290, 291..488, 302..472, 504..830, 513..659, 515..682, 728..811, 921..1040, 965..1054		

Seq. No.	55075	Seq. ID	OJ000322_07.0419.C20
Gene No.	115428	Strand	+
Start	1	End	1725
Name	OJ000322_07.0419.C20.o1.ts	Method	TBLASTX:Soybean
Start	80	End	830
GI	none	Score	67
Exons	80..193, 102..164, 140..364, 309..488, 344..472, 348..491, 349..495, 501..830, 527..682, 728..829		

Seq. No.	55075	Seq. ID	OJ000322_07.0419.C20
Gene No.	115428	Strand	+
Start	1	End	1725
Name	OJ000322_07.0419.C20.o1.tm	Method	TBLASTX:Maize
Start	87	End	1040
GI	none	Score	118
Exons	87..350, 191..283, 285..506, 290..475, 513..827, 527..670, 728..826, 921..1040		

Seq. No.	55075	Seq. ID	OJ000322_07.0419.C20
Gene No.	115428	Strand	+
Start	1	End	1725
Name	OJ000322_07.0419.C20.o1.gs	Method	GENSCAN
Start	108	End	1217
GI	none	Score	.71
Exons	108..1217		

Seq. No.	55075	Seq. ID	OJ000322_07.0419.C20
Gene No.	115428	Strand	+
Start	1	End	1725
Name	OJ000322_07.0419.C20.o1.tw	Method	TBLASTX:Wheat
Start	146	End	563
GI	none	Score	56
Exons	146..289, 146..328, 147..290, 385..498, 492..563, 503..556	290..490, 291..494, 305..496,	

Seq. No.	55075	Seq. ID	OJ000322_07.0419.C20
Gene No.	115428	Strand	+
Start	1	End	1725
Name	OJ000322_07.0419.C20.o2.tw	Method	TBLASTX:Wheat
Start	564	End	830
GI	none	Score	119
Exons	564..692, 696..830, 728..829		

Seq. No.	55076	Seq. ID	OJ000322_07.0419.C21
Gene No.	115429	Strand	+
Start	175	End	2421
Name	OJ000322_07.0419.C21.o1.gs	Method	GENSCAN
Start	175	End	1382
GI	none	Score	.97
Exons	175..1382		

Seq. No.	55076	Seq. ID	OJ000322_07.0419.C21
Gene No.	115429	Strand	+
Start	175	End	2421
Name	OJ000322_07.0419.C21.o1.np	Method	AAT/NAP
Start	182	End	2421
GI	6665543	Score	778
Exons	182..1260, 2380..2421		
GI Descrip.	(AC013289) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	55076	Seq. ID	OJ000322_07.0419.C21
Gene No.	115429	Strand	+
Start	175	End	2421
Name	OJ000322_07.0419.C21.o1.ts	Method	TBLASTX:Soybean
Start	258	End	1061
GI	none	Score	70
Exons	258..326, 339..485, 477..656,	512..652, 660..1061, 680..1000	

Seq. No.	55076	Seq. ID	OJ000322_07.0419.C21
Gene No.	115429	Strand	+
Start	175	End	2421
Name	OJ000322_07.0419.C21.o1.tw	Method	TBLASTX:Wheat
Start	338	End	731
GI	none	Score	70
Exons	338..490, 339..659, 339..452, 666..731	449..658, 525..662, 665..730,	

Seq. No.	55076	Seq. ID	OJ000322_07.0419.C21
Gene No.	115429	Strand	+
Start	175	End	2421
Name	OJ000322_07.0419.C21.o1.tc	Method	TBLASTX:Cress
Start	357	End	1214
GI	none	Score	342

Exons	357..656, 449..637, 672..1016, 680..976, 1023..1214		
Seq. No.	55076	Seq. ID	OJ000322_07.0419.C21
Gene No.	115429	Strand	+
Start	175	End	2421
Name	OJ000322_07.0419.C21.o1.tm	Method	TBLASTX:Maize
Start	357	End	1214
GI	none	Score	356
Exons	357..656, 467..646, 681..1016, 694..957, 695..1000, 1023..1214		
Seq. No.	55076	Seq. ID	OJ000322_07.0419.C21
Gene No.	115429	Strand	+
Start	175	End	2421
Name	OJ000322_07.0419.C21.o2.tw	Method	TBLASTX:Wheat
Start	732	End	1004
GI	none	Score	125
Exons	732..851, 734..847, 863..1003, 864..1004		
Seq. No.	55077	Seq. ID	OJ000322_07.0419.C22
Gene No.	115430	Strand	+
Start	238	End	393
Name	OJ000322_07.0419.C22.o1.gs	Method	GENSCAN
Start	238	End	393
GI	none	Score	.91
Exons	238..393		
Seq. No.	55078	Seq. ID	OJ000322_07.0419.C26
Gene No.	115431	Strand	+
Start	105	End	1247
Name	OJ000322_07.0419.C26.o1.np	Method	AAT/NAP
Start	105	End	1247
GI	7489616	Score	105
Exons	105..239, 1227..1247		
GI Descrip.	hypothetical protein 74 - rice mitochondrion gi|769706|dbj|BAA06810.1| (D32052) ORF74 [Oryza sativa]		
Seq. No.	55078	Seq. ID	OJ000322_07.0419.C26
Gene No.	115432	Strand	-
Start	107	End	635
Name	OJ000322_07.0419.C26.o1.gs	Method	GENSCAN
Start	107	End	635
GI	none	Score	.54
Exons	107..225, 462..635		
Seq. No.	55079	Seq. ID	OJ000322_07.0419.C27
Gene No.	115433	Strand	+
Start	1077	End	2058
Name	OJ000322_07.0419.C27.o2.np	Method	AAT/NAP
Start	1077	End	2058
GI	1709923	Score	300
Exons	1077..1186, 1846..2058		
GI Descrip.	PHOSPHORIBOSYLGLYCINAMIDE FORMYLTRANSFERASE PRECURSOR (GART) (GAR TRANSFORMYLASE) (5'-PHOSPHORIBOSYLGLYCINAMIDE TRANSFORMYLASE) gi|7433568|pir||T11574 phosphoribosylglycinamide formyltransferase (EC 2.1.2.2) - cowpea gi|984818|gb|AAA75367.1| (U30875) glycinamide ribonucleotide transformylase (GART) [Vigna unguiculata]		

Seq. No.	55079	Seq. ID	OJ000322_07.0419.C27
Gene No.	115434	Strand	-
Start	216	End	2037
Name	OJ000322_07.0419.C27.o1.np	Method	AAT/NAP
Start	145	End	1054
GI	6665543	Score	519
Exons	145..1054		
GI Descrip.	(AC013289) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	55079	Seq. ID	OJ000322_07.0419.C27
Gene No.	115434	Strand	-
Start	216	End	2037
Name	OJ000322_07.0419.C27.o1.gs	Method	GENSCAN
Start	216	End	1249
GI	none	Score	.71
Exons	216..603, 718..898, 1114..1249		

Seq. No.	55079	Seq. ID	OJ000322_07.0419.C27
Gene No.	115434	Strand	-
Start	216	End	2037
Name	OJ000322_07.0419.C27.o1.tc	Method	TBLASTX:Cress
Start	336	End	1055
GI	none	Score	58
Exons	336..467, 355..414, 558..893, 577..888, 906..1055, 922..1050		

Seq. No.	55079	Seq. ID	OJ000322_07.0419.C27
Gene No.	115434	Strand	-
Start	216	End	2037
Name	OJ000322_07.0419.C27.o1.tm	Method	TBLASTX:Maize
Start	348	End	1060
GI	none	Score	170
Exons	348..467, 450..530, 551..832, 561..875, 562..861, 885..1049, 893..1060, 919..1059		

Seq. No.	55079	Seq. ID	OJ000322_07.0419.C27
Gene No.	115434	Strand	-
Start	216	End	2037
Name	OJ000322_07.0419.C27.o1.ts	Method	TBLASTX:Soybean
Start	558	End	1055
GI	none	Score	191
Exons	558..881, 559..873, 887..1045, 906..1055, 920..1030, 922..1050		

Seq. No.	55079	Seq. ID	OJ000322_07.0419.C27
Gene No.	115434	Strand	-
Start	216	End	2037
Name	OJ000322_07.0419.C27.o2.tw	Method	TBLASTX:Wheat
Start	558	End	824
GI	none	Score	64
Exons	558..692, 559..687, 717..824		

Seq. No.	55079	Seq. ID	OJ000322_07.0419.C27
Gene No.	115434	Strand	-
Start	216	End	2037
Name	OJ000322_07.0419.C27.o1.tw	Method	TBLASTX:Wheat
Start	825	End	1062
GI	none	Score	40

Exons	825..884, 832..885, 887..1042, 900..1061, 903..1049, 910..1062, 910..1062		
Seq. No.	55079	Seq. ID	OJ000322_07.0419.C27
Gene No.	115434	Strand	-
Start	216	End	2037
Name	OJ000322_07.0419.C27.o2.tc	Method	TBLASTX:Cress
Start	1076	End	2028
GI	none	Score	97
Exons	1076..1147, 1077..1148, 1844..2026, 1844..1999, 1855..2028		
Seq. No.	55079	Seq. ID	OJ000322_07.0419.C27
Gene No.	115434	Strand	-
Start	216	End	2037
Name	OJ000322_07.0419.C27.o2.ts	Method	TBLASTX:Soybean
Start	1076	End	2037
GI	none	Score	79
Exons	1076..1138, 1077..1139, 1844..2026, 1844..2002, 1876..2037, 1924..2022		
Seq. No.	55079	Seq. ID	OJ000322_07.0419.C27
Gene No.	115434	Strand	-
Start	216	End	2037
Name	OJ000322_07.0419.C27.o2.tm	Method	TBLASTX:Maize
Start	1094	End	2013
GI	none	Score	105
Exons	1094..1186, 1095..1187, 1113..1187, 1838..1999, 1843..2013, 1845..2000, 1856..2011		
Seq. No.	55080	Seq. ID	OJ000322_07.0419.C29
Gene No.	115435	Strand	-
Start	95	End	198
Name	OJ000322_07.0419.C29.o1.gs	Method	GENSCAN
Start	95	End	198
GI	none	Score	.7
Exons	95..198		
Seq. No.	55081	Seq. ID	OJ000322_07.0419.C30
Gene No.	115436	Strand	+
Start	2915	End	4420
Name	OJ000322_07.0419.C30.o2.np	Method	AAT/NAP
Start	2915	End	4420
GI	4826399	Score	229
Exons	2915..3260, 3299..3806, 3958..4049, 4382..4420		
GI Descrip.	(AJ012423) wall-associated kinase 2 [Arabidopsis thaliana]		
Seq. No.	55081	Seq. ID	OJ000322_07.0419.C30
Gene No.	115436	Strand	+
Start	2915	End	4420
Name	OJ000322_07.0419.C30.o3.gs	Method	GENSCAN
Start	2915	End	4107
GI	none	Score	.94
Exons	2915..3806, 3958..4107		
Seq. No.	55081	Seq. ID	OJ000322_07.0419.C30
Gene No.	115437	Strand	-
Start	2010	End	3154

Name	OJ000322_07.0419.C30.o1.tm	Method	TBLASTX:Maize
Start	507	End	3154
GI	none	Score	96
Exons	507..686, 511..693, 690..767, 694..768, 770..862, 792..845, 906..926, 2981..3046, 3008..3154		

Seq. No.	55081	Seq. ID	OJ000322_07.0419.C30
Gene No.	115437	Strand	-
Start	2010	End	3154
Name	OJ000322_07.0419.C30.o2.gs	Method	GENSCAN
Start	2010	End	2386
GI	none	Score	.61
Exons	2010..2117, 2186..2386		

Seq. No.	55082	Seq. ID	OJ000322_07.0419.C31
Gene No.	115438	Strand	+
Start	1	End	902
Name	OJ000322_07.0419.C31.o1.np	Method	AAT/NAP
Start	1	End	834
GI	6587818	Score	650
Exons	1..834		
GI Descrip.	(AC010924) Contains similarity to gb|AJ009695 wall-associated kinase 4 from Arabidopsis thaliana and contains a protein kinase PF|00069 domain.		

Seq. No.	55082	Seq. ID	OJ000322_07.0419.C31
Gene No.	115438	Strand	+
Start	1	End	902
Name	OJ000322_07.0419.C31.o1.gs	Method	GENSCAN
Start	92	End	902
GI	none	Score	.56
Exons	92..902		

Seq. No.	55082	Seq. ID	OJ000322_07.0419.C31
Gene No.	115439	Strand	-
Start	2056	End	2192
Name	OJ000322_07.0419.C31.o1.tc	Method	TBLASTX:Cress
Start	2	End	752
GI	none	Score	261
Exons	2..184, 3..188, 40..192, 58..189, 204..605, 213..524, 627..752		

Seq. No.	55082	Seq. ID	OJ000322_07.0419.C31
Gene No.	115439	Strand	-
Start	2056	End	2192
Name	OJ000322_07.0419.C31.o2.tw	Method	TBLASTX:Wheat
Start	2	End	137
GI	none	Score	209
Exons	2..136, 3..137		

Seq. No.	55082	Seq. ID	OJ000322_07.0419.C31
Gene No.	115439	Strand	-
Start	2056	End	2192
Name	OJ000322_07.0419.C31.o1.tm	Method	TBLASTX:Maize
Start	2	End	776
GI	none	Score	264
Exons	2..178, 3..194, 10..195, 40..180, 213..530, 228..527, 621..776, 674..757		

Seq. No.	55082	Seq. ID	OJ000322_07.0419.C31
Gene No.	115439	Strand	-
Start	2056	End	2192
Name	OJ000322_07.0419.C31.o1.ts	Method	TBLASTX:Soybean
Start	9	End	527
GI	none	Score	220
Exons	9..188, 20..121, 201..527, 213..524		

Seq. No.	55082	Seq. ID	OJ000322_07.0419.C31
Gene No.	115439	Strand	-
Start	2056	End	2192
Name	OJ000322_07.0419.C31.o1.tw	Method	TBLASTX:Wheat
Start	138	End	536
GI	none	Score	229
Exons	138..392, 142..204, 260..379, 396..536		

Seq. No.	55082	Seq. ID	OJ000322_07.0419.C31
Gene No.	115439	Strand	-
Start	2056	End	2192
Name	OJ000322_07.0419.C31.o2.gs	Method	GENSCAN
Start	2056	End	2192
GI	none	Score	.7
Exons	2056..2192		

Seq. No.	55083	Seq. ID	OJ000322_07.0419.C32
Gene No.	115440	Strand	+
Start	1496	End	1953
Name	OJ000322_07.0419.C32.o1.gs	Method	GENSCAN
Start	1496	End	1953
GI	none	Score	.59
Exons	1496..1953		

Seq. No.	55084	Seq. ID	OJ000322_07.0419.C33
Gene No.	115441	Strand	-
Start	3991	End	6449
Name	OJ000322_07.0419.C33.o1.np	Method	AAT/NAP
Start	3991	End	6449
GI	5042463	Score	199
Exons	3991..4262, 5282..5384, 5430..5573, 6259..6449		
GI Descrip.	(AC007789) unknown protein [Oryza sativa]		

Seq. No.	55085	Seq. ID	OJ000322_02.0419.C3
Gene No.	115442	Strand	-
Start	152	End	710
Name	OJ000322_02.0419.C3.o1.np	Method	AAT/NAP
Start	152	End	710
GI	4836907	Score	273
Exons	152..244, 369..485, 567..710		
GI Descrip.	(AC007153) Highly similar to putative callose synthase catalytic subunit [Arabidopsis thaliana]		

Seq. No.	55085	Seq. ID	OJ000322_02.0419.C3
Gene No.	115442	Strand	-
Start	152	End	710
Name	OJ000322_02.0419.C3.o1.tc	Method	TBLASTX:Cress
Start	206	End	662

GI	none	Score	37
Exons	206..253, 207..242, 305..397, 337..396, 346..492, 369..485, 552..662, 565..660		
Seq. No.	55085	Seq. ID	OJ000322_02.0419.C3
Gene No.	115442	Strand	-
Start	152	End	710
Name	OJ000322_02.0419.C3.o1.ts	Method	TBLASTX:Soybean
Start	206	End	677
GI	none	Score	36
Exons	206..259, 207..245, 366..488, 369..488, 564..677		
Seq. No.	55086	Seq. ID	OJ000322_02.0419.C5
Gene No.	115443	Strand	+
Start	92	End	706
Name	OJ000322_02.0419.C5.o1.gs	Method	GENSCAN
Start	92	End	706
GI	none	Score	.91
Exons	92..706		
Seq. No.	55087	Seq. ID	OJ000322_02.0419.C6
Gene No.	115444	Strand	+
Start	1	End	1701
Name	OJ000322_02.0419.C6.o1.np	Method	AAT/NAP
Start	1	End	1701
GI	4926831	Score	217
Exons	1..86, 890..966, 1442..1701		
GI Descrip.	(AC004135) T17H7.16 [Arabidopsis thaliana]		
Seq. No.	55087	Seq. ID	OJ000322_02.0419.C6
Gene No.	115444	Strand	+
Start	1	End	1701
Name	OJ000322_02.0419.C6.o1.gs	Method	GENSCAN
Start	877	End	1612
GI	none	Score	.96
Exons	877..966, 1442..1612		
Seq. No.	55087	Seq. ID	OJ000322_02.0419.C6
Gene No.	115444	Strand	+
Start	1	End	1701
Name	OJ000322_02.0419.C6.o1.ts	Method	TBLASTX:Soybean
Start	1434	End	1608
GI	none	Score	78
Exons	1434..1559, 1450..1602, 1457..1603, 1459..1608		
Seq. No.	55087	Seq. ID	OJ000322_02.0419.C6
Gene No.	115444	Strand	+
Start	1	End	1701
Name	OJ000322_02.0419.C6.o1.tm	Method	TBLASTX:Maize
Start	1449	End	1612
GI	none	Score	135
Exons	1449..1610, 1450..1605, 1460..1612		
Seq. No.	55088	Seq. ID	OJ000322_02.0419.C8
Gene No.	115445	Strand	+
Start	1	End	1643
Name	OJ000322_02.0419.C8.o1.np	Method	AAT/NAP

Start	1	End	1643
GI	7446372	Score	502
Exons	1..160, 889..951, 1063..1134, 1323..1430, 1522..1643		
GI Descrip.	probable serine/threonine kinase (EC 2.7.1.-) SNFL2 - sorghum gi|2632254|emb|CAA73068.1| (Y12465) serine/threonine kinase [Sorghum bicolor]		

Seq. No.	55088	Seq. ID	OJ000322_02.0419.C8
Gene No.	115446	Strand	-
Start	94	End	1604
Name	OJ000322_02.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	1	End	1604
GI	none	Score	188
Exons	1..159, 14..169, 885..953, 886..957, 888..953, 1060..1137, 1062..1139, 1062..1136, 1323..1430, 1361..1429, 1516..1602, 1521..1604		

Seq. No.	55088	Seq. ID	OJ000322_02.0419.C8
Gene No.	115446	Strand	-
Start	94	End	1604
Name	OJ000322_02.0419.C8.o1.tw	Method	TBLASTX:Wheat
Start	1	End	135
GI	none	Score	185
Exons	1..135, 2..133		

Seq. No.	55088	Seq. ID	OJ000322_02.0419.C8
Gene No.	115446	Strand	-
Start	94	End	1604
Name	OJ000322_02.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	2	End	1604
GI	none	Score	72
Exons	2..163, 4..60, 4..174, 5..169, 885..953, 886..957, 888..953, 1060..1137, 1062..1139, 1323..1430, 1323..1430, 1516..1602, 1521..1604		

Seq. No.	55088	Seq. ID	OJ000322_02.0419.C8
Gene No.	115446	Strand	-
Start	94	End	1604
Name	OJ000322_02.0419.C8.o1.tc	Method	TBLASTX:Cress
Start	13	End	1604
GI	none	Score	188
Exons	13..159, 14..169, 886..957, 888..953, 1060..1137, 1062..1136, 1323..1430, 1361..1426, 1515..1604, 1516..1602		

Seq. No.	55088	Seq. ID	OJ000322_02.0419.C8
Gene No.	115446	Strand	-
Start	94	End	1604
Name	OJ000322_02.0419.C8.o1.gs	Method	GENSCAN
Start	94	End	1499
GI	none	Score	.56
Exons	94..264, 1454..1499		

Seq. No.	55089	Seq. ID	OJ000322_02.0419.C10
Gene No.	115447	Strand	+
Start	478	End	624
Name	OJ000322_02.0419.C10.o1.gs	Method	GENSCAN
Start	478	End	624

GI	none	Score	.9
Exons	478..624		

Seq. No.	55090	Seq. ID	OJ000322_02.0419.C15
Gene No.	115448	Strand	+
Start	1	End	735
Name	OJ000322_02.0419.C15.o1.gp	Method	AAT/GAP
Start	1	End	652
GI	uC-osf1M202046b02b1	Score	677
Exons	1..100, 291..366, 463..652		
GI Descrip.	'1922242/emb|CAA71173| 5.0e-13 (Y10084) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	55090	Seq. ID	OJ000322_02.0419.C15
Gene No.	115448	Strand	+
Start	1	End	735
Name	OJ000322_02.0419.C15.o1.gs	Method	GENSCAN
Start	92	End	723
GI	none	Score	.94
Exons	92..100, 291..723		

Seq. No.	55090	Seq. ID	OJ000322_02.0419.C15
Gene No.	115448	Strand	+
Start	1	End	735
Name	OJ000322_02.0419.C15.o1.np	Method	AAT/NAP
Start	285	End	735
GI	1922242	Score	257
Exons	285..366, 463..735		
GI Descrip.	(Y10084) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55090	Seq. ID	OJ000322_02.0419.C15
Gene No.	115448	Strand	+
Start	1	End	735
Name	OJ000322_02.0419.C15.o1.ts	Method	TBLASTX:Soybean
Start	285	End	554
GI	none	Score	108
Exons	285..368, 286..345, 290..370, 419..553, 447..554		

Seq. No.	55090	Seq. ID	OJ000322_02.0419.C15
Gene No.	115448	Strand	+
Start	1	End	735
Name	OJ000322_02.0419.C15.o1.tc	Method	TBLASTX:Cress
Start	285	End	554
GI	none	Score	99
Exons	285..368, 290..370, 447..554, 461..547		

Seq. No.	55090	Seq. ID	OJ000322_02.0419.C15
Gene No.	115448	Strand	+
Start	1	End	735
Name	OJ000322_02.0419.C15.o1.tm	Method	TBLASTX:Maize
Start	286	End	589
GI	none	Score	101
Exons	286..366, 288..380, 290..370, 447..584, 461..580, 463..588, 494..589		

Seq. No.	55090	Seq. ID	OJ000322_02.0419.C15
Gene No.	115448	Strand	+

Start	1	End	735
Name	OJ000322_02.0419.C15.o1.tw	Method	TBLASTX:Wheat
Start	288	End	584
GI	none	Score	111
Exons	288..368, 289..366, 290..370, 463..504, 466..504, 507..554,	290..370, 508..555,	445..489, 447..506, 509..559, 552..584

Seq. No.	55091	Seq. ID	OJ000322_02.0419.C18
Gene No.	115449	Strand	+
Start	1286	End	2007
Name	OJ000322_02.0419.C18.o1.gs	Method	GENSCAN
Start	1286	End	2007
GI	none	Score	.63
Exons	1286..1356, 1417..1531, 1710..1751, 1972..2007		

Seq. No.	55091	Seq. ID	OJ000322_02.0419.C18
Gene No.	115450	Strand	-
Start	2209	End	2633
Name	OJ000322_02.0419.C18.o2.gs	Method	GENSCAN
Start	2209	End	2633
GI	none	Score	.67
Exons	2209..2225, 2456..2633		

Seq. No.	55092	Seq. ID	OJ000322_02.0419.C19
Gene No.	115451	Strand	-
Start	906	End	1972
Name	OJ000322_02.0419.C19.o1.gs	Method	GENSCAN
Start	906	End	1972
GI	none	Score	.58
Exons	906..1162, 1783..1972		

Seq. No.	55093	Seq. ID	OJ000322_02.0419.C20
Gene No.	115452	Strand	+
Start	1937	End	3574
Name	OJ000322_02.0419.C20.o1.np	Method	AAT/NAP
Start	1937	End	3574
GI	7487840	Score	44
Exons	1937..1970, 3300..3574		
GI Descrip.	hypothetical protein T9A14.180 - Arabidopsis thaliana gi|4490342|emb|CAB38624.1| (AL035656) putative protein [Arabidopsis thaliana] gi|7270873|emb|CAB80553.1| (AL161594) putative protein [Arabidopsis thaliana]		

Seq. No.	55094	Seq. ID	OJ000322_02.0419.C21
Gene No.	115453	Strand	+
Start	1	End	1833
Name	OJ000322_02.0419.C21.o1.np	Method	AAT/NAP
Start	1	End	1611
GI	7487840	Score	329
Exons	1..61, 196..345, 478..562, 1394..1611		
GI Descrip.	hypothetical protein T9A14.180 - Arabidopsis thaliana gi|4490342|emb|CAB38624.1| (AL035656) putative protein [Arabidopsis thaliana] gi|7270873|emb|CAB80553.1| (AL161594) putative protein [Arabidopsis thaliana]		

Seq. No.	55094	Seq. ID	OJ000322_02.0419.C21
Gene No.	115453	Strand	+

Start	1	End	1833
Name	OJ000322_02.0419.C21.o1.gs	Method	GENSCAN
Start	5	End	1614
GI	none	Score	.96
Exons	5..60, 213..345, 478..562, 1394..1614		

Seq. No.	55094	Seq. ID	OJ000322_02.0419.C21
Gene No.	115453	Strand	+
Start	1	End	1833
Name	OJ000322_02.0419.C21.o1.ts	Method	TBLASTX:Soybean
Start	5	End	558
GI	none	Score	70
Exons	5..61, 210..338, 211..360, 475..558		

Seq. No.	55094	Seq. ID	OJ000322_02.0419.C21
Gene No.	115453	Strand	+
Start	1	End	1833
Name	OJ000322_02.0419.C21.o1.tw	Method	TBLASTX:Wheat
Start	5	End	1487
GI	none	Score	76
Exons	5..61, 210..344, 211..345, 475..561, 1392..1487, 1393..1458		

Seq. No.	55094	Seq. ID	OJ000322_02.0419.C21
Gene No.	115453	Strand	+
Start	1	End	1833
Name	OJ000322_02.0419.C21.o1.gp	Method	AAT/GAP
Start	1378	End	1833
GI	57972_1.R1084	Score	882
Exons	1378..1833		
GI Descrip.	'2632252/emb|CAA73067| 4.0e-18 (Y12464) serine/threonine kinase [Sorghum bicolor]'		

Seq. No.	55095	Seq. ID	OJ000322_02.0419.C22
Gene No.	115454	Strand	-
Start	1	End	1280
Name	OJ000322_02.0419.C22.o1.np	Method	AAT/NAP
Start	1	End	1044
GI	2583109	Score	306
Exons	1..349, 431..1044		
GI Descrip.	(AC002387) unknown protein [Arabidopsis thaliana]		

Seq. No.	55095	Seq. ID	OJ000322_02.0419.C22
Gene No.	115454	Strand	-
Start	1	End	1280
Name	OJ000322_02.0419.C22.o2.tm	Method	TBLASTX:Maize
Start	32	End	534
GI	none	Score	77
Exons	32..94, 34..99, 78..143, 87..152, 91..168, 91..171, 92..184, 220..417, 220..417, 224..469, 249..467, 442..534		

Seq. No.	55095	Seq. ID	OJ000322_02.0419.C22
Gene No.	115454	Strand	-
Start	1	End	1280
Name	OJ000322_02.0419.C22.o1.tm	Method	TBLASTX:Maize
Start	560	End	1280
GI	none	Score	95
Exons	560..739, 568..783, 571..837, 754..864, 754..864, 786..869,		

882..1055, 883..1056, 904..1056, 1131..1280, 1156..1278

Seq. No.	55095	Seq. ID	OJ000322_02.0419.C22
Gene No.	115454	Strand	-
Start	1	End	1280
Name	OJ000322_02.0419.C22.o1.tc	Method	TBLASTX:Cress
Start	904	End	1056
GI	none	Score	130
Exons	904..1056, 911..1054		

Seq. No.	55096	Seq. ID	OJ000322_02.0419.C23
Gene No.	115455	Strand	-
Start	1	End	6618
Name	OJ000322_02.0419.C23.o1.np	Method	AAT/NAP
Start	1	End	2522
GI	2505877	Score	1073
Exons	1..76, 491..621, 744..909, 1928..2522		
GI Descrip.	(Y12776) dehydrogenase [Arabidopsis thaliana]		

Seq. No.	55096	Seq. ID	OJ000322_02.0419.C23
Gene No.	115455	Strand	-
Start	1	End	6618
Name	OJ000322_02.0419.C23.o1.tm	Method	TBLASTX:Maize
Start	2	End	808
GI	none	Score	115
Exons	2..76, 11..82, 485..622, 486..623, 742..807, 743..808		

Seq. No.	55096	Seq. ID	OJ000322_02.0419.C23
Gene No.	115455	Strand	-
Start	1	End	6618
Name	OJ000322_02.0419.C23.o1.gs	Method	GENSCAN
Start	340	End	6617
GI	none	Score	.45
Exons	340..450, 491..621, 744..912, 1928..2425, 2704..2797, 3394..3422, 4494..4699, 5780..5909, 6164..6241, 6558..6617		

Seq. No.	55096	Seq. ID	OJ000322_02.0419.C23
Gene No.	115455	Strand	-
Start	1	End	6618
Name	OJ000322_02.0419.C23.o1.tc	Method	TBLASTX:Cress
Start	485	End	2218
GI	none	Score	124
Exons	485..622, 488..610, 489..623, 732..845, 742..879, 743..880, 743..880, 745..888, 1917..2168, 1940..2116, 2103..2192, 2135..2218, 2159..2209		

Seq. No.	55096	Seq. ID	OJ000322_02.0419.C23
Gene No.	115455	Strand	-
Start	1	End	6618
Name	OJ000322_02.0419.C23.o2.tc	Method	TBLASTX:Cress
Start	2252	End	2473
GI	none	Score	151
Exons	2252..2305, 2306..2473		

Seq. No.	55096	Seq. ID	OJ000322_02.0419.C23
Gene No.	115455	Strand	-
Start	1	End	6618

Name	OJ000322_02.0419.C23.o1.gp	Method	AAT/GAP
Start	3320	End	3620
GI	1944311	Score	574
Exons	3320..3620		

Seq. No.	55096	Seq. ID	OJ000322_02.0419.C23
Gene No.	115455	Strand	-
Start	1	End	6618
Name	OJ000322_02.0419.C23.o2.gp	Method	AAT/GAP
Start	3850	End	5291
GI	64797_1.R1084	Score	847
Exons	3850..3923, 4065..4295, 4494..4658, 5262..5291		
GI Descrip.	'2632252/emb|CAA73067| 4.0e-18 (Y12464) serine/threonine kinase [Sorghum bicolor]'		

Seq. No.	55096	Seq. ID	OJ000322_02.0419.C23
Gene No.	115455	Strand	-
Start	1	End	6618
Name	OJ000322_02.0419.C23.o2.tm	Method	TBLASTX:Maize
Start	4488	End	6618
GI	none	Score	79
Exons	4488..4544, 4491..4550, 4563..4679, 4570..4653, 4593..4655, 5257..5310, 5262..5315, 5262..5315, 5263..5322, 5778..5909, 5778..5909, 6161..6241, 6165..6242, 6172..6243, 6174..6242, 6558..6617, 6558..6617, 6562..6618		

Seq. No.	55097	Seq. ID	OJ000322_02.0419.C24
Gene No.	115456	Strand	+
Start	4219	End	4656
Name	OJ000322_02.0419.C24.o1.np	Method	AAT/NAP
Start	4219	End	4656
GI	7523505	Score	174
Exons	4219..4415, 4551..4656		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	55098	Seq. ID	OJ000322_02.0419.C25
Gene No.	115457	Strand	-
Start	298	End	1826
Name	OJ000322_02.0419.C25.o1.gs	Method	GENSCAN
Start	298	End	1826
GI	none	Score	.84
Exons	298..586, 789..932, 1575..1663, 1743..1826		

Seq. No.	55099	Seq. ID	OJ000322_02.0419.C26
Gene No.	115458	Strand	+
Start	256	End	641
Name	OJ000322_02.0419.C26.o1.gs	Method	GENSCAN
Start	256	End	641
GI	none	Score	.6
Exons	256..374, 508..641		

Seq. No.	55100	Seq. ID	OJ000322_02.0419.C27
Gene No.	115459	Strand	-
Start	1	End	844
Name	OJ000322_02.0419.C27.o1.np	Method	AAT/NAP
Start	1	End	844
GI	7076798	Score	184

Exons	1..122, 444..844		
GI Descrip.	(AL132975) probable serine/threonine-specific protein kinase [Arabidopsis thaliana]		
Seq. No.	55100	Seq. ID	OJ000322_02.0419.C27
Gene No.	115459	Strand	-
Start	1	End	844
Name	OJ000322_02.0419.C27.o1.tm	Method	TBLASTX:Maize
Start	450	End	844
GI	none	Score	431
Exons	450..842, 452..844, 452..844		
Seq. No.	55100	Seq. ID	OJ000322_02.0419.C27
Gene No.	115459	Strand	-
Start	1	End	844
Name	OJ000322_02.0419.C27.o1.ts	Method	TBLASTX:Soybean
Start	473	End	824
GI	none	Score	107
Exons	473..682, 474..683, 689..784, 689..823, 780..824		
Seq. No.	55101	Seq. ID	OJ000322_02.0419.C28
Gene No.	115460	Strand	+
Start	2337	End	3107
Name	OJ000322_02.0419.C28.o2.gs	Method	GENSCAN
Start	2337	End	3107
GI	none	Score	.58
Exons	2337..2462, 2497..2685, 2958..3107		
Seq. No.	55101	Seq. ID	OJ000322_02.0419.C28
Gene No.	115461	Strand	-
Start	1	End	1853
Name	OJ000322_02.0419.C28.o1.np	Method	AAT/NAP
Start	1	End	1835
GI	5734642	Score	592
Exons	1..21, 329..584, 673..1835		
GI Descrip.	(AP000391) ESTs C22657(S0014),C22656(S0014) correspond to a region of the predicted gene.; Similar to receptor protein kinase, ERECTA (AC004484) [Oryza sativa] gi|6006357|dbj|BAA84787.1| (AP000559) ESTs C22657(S0014),C22656(S0014) correspond to a region of the predicted gene.; Similar to receptor protein kinase, ERECTA (AC004484) [Oryza sativa]		
Seq. No.	55101	Seq. ID	OJ000322_02.0419.C28
Gene No.	115461	Strand	-
Start	1	End	1853
Name	OJ000322_02.0419.C28.o1.tm	Method	TBLASTX:Maize
Start	8	End	1481
GI	none	Score	51
Exons	8..40, 9..44, 10..51, 47..79, 122..157, 132..230, 134..229, 245..583, 246..584, 290..583, 648..797, 657..758, 658..741, 672..761, 804..1034, 804..962, 804..902, 852..1163, 853..1014, 927..1262, 999..1325, 1209..1325, 1353..1481, 1362..1472		
Seq. No.	55101	Seq. ID	OJ000322_02.0419.C28
Gene No.	115461	Strand	-
Start	1	End	1853

Name	OJ000322_02.0419.C28.o1.gs	Method	GENSCAN
Start	89	End	1853
GI	none	Score	.93
Exons	89..584, 673..1853		

Seq. No.	55101	Seq. ID	OJ000322_02.0419.C28
Gene No.	115461	Strand	-
Start	1	End	1853
Name	OJ000322_02.0419.C28.o1.tc	Method	TBLASTX:Cress
Start	249	End	1628
GI	none	Score	63
Exons	249..383, 326..583, 326..499, 326..427, 332..583, 332..583, 332..427, 332..427, 332..580, 332..583, 332..583, 353..574, 609..797, 657..797, 657..797, 672..797, 687..806, 708..755, 801..1232, 804..1061, 804..1334, 804..1325, 834..1046, 855..923, 858..962, 927..1343, 984..1334, 996..1337, 999..1265, 1062..1238, 1347..1472, 1347..1472, 1350..1481, 1353..1505, 1353..1484, 1353..1487, 1353..1472, 1353..1481, 1353..1484, 1362..1469, 1506..1550, 1509..1628		

Seq. No.	55101	Seq. ID	OJ000322_02.0419.C28
Gene No.	115461	Strand	-
Start	1	End	1853
Name	OJ000322_02.0419.C28.o1.ts	Method	TBLASTX:Soybean
Start	282	End	1640
GI	none	Score	62
Exons	282..398, 329..583, 332..583, 332..427, 332..580, 401..583, 606..797, 648..797, 648..797, 657..791, 804..1334, 804..908, 999..1325, 1131..1325, 1215..1283, 1353..1481, 1353..1481, 1353..1472, 1488..1640, 1491..1625		

Seq. No.	55102	Seq. ID	OJ000322_02.0419.C29
Gene No.	115462	Strand	-
Start	123	End	680
Name	OJ000322_02.0419.C29.o1.gs	Method	GENSCAN
Start	123	End	680
GI	none	Score	.78
Exons	123..166, 425..680		

Seq. No.	55103	Seq. ID	OJ000322_02.0419.C31
Gene No.	115463	Strand	+
Start	1200	End	3264
Name	OJ000322_02.0419.C31.o1.gp	Method	AAT/GAP
Start	1200	End	1527
GI	none	Score	595
Exons	1200..1527		

Seq. No.	55103	Seq. ID	OJ000322_02.0419.C31
Gene No.	115463	Strand	+
Start	1200	End	3264
Name	OJ000322_02.0419.C31.o1.gs	Method	GENSCAN
Start	1308	End	2939
GI	none	Score	.83
Exons	1308..2458, 2720..2939		

Seq. No.	55103	Seq. ID	OJ000322_02.0419.C31
Gene No.	115463	Strand	+

Start	1200	End	3264
Name	OJ000322_02.0419.C31.o1.np	Method	AAT/NAP
Start	1311	End	3264
GI	7329700	Score	808
Exons	1311..2452, 3158..3264		
GI Descrip.	(AL162295) endosperm specific protein-like [Arabidopsis thaliana]		

Seq. No.	55103	Seq. ID	OJ000322_02.0419.C31
Gene No.	115463	Strand	+
Start	1200	End	3264
Name	OJ000322_02.0419.C31.o2.gp	Method	AAT/GAP
Start	1494	End	1993
GI	LIB3431-030-P1-K2-E7	Score	926
Exons	1494..1993		
GI Descrip.	'2583108 4.0e-33 (AC002387) putative surface protein [Arabidopsis thaliana]'		

Seq. No.	55103	Seq. ID	OJ000322_02.0419.C31
Gene No.	115464	Strand	-
Start	2274	End	2737
Name	OJ000322_02.0419.C31.o2.tc	Method	TBLASTX:Cress
Start	1382	End	1661
GI	none	Score	141
Exons	1382..1522, 1383..1529, 1551..1661, 1560..1607		

Seq. No.	55103	Seq. ID	OJ000322_02.0419.C31
Gene No.	115464	Strand	-
Start	2274	End	2737
Name	OJ000322_02.0419.C31.o1.ts	Method	TBLASTX:Soybean
Start	1389	End	2300
GI	none	Score	116
Exons	1389..1532, 1509..1832, 1532..1612, 1674..1745, 1857..2000, 2016..2300		

Seq. No.	55103	Seq. ID	OJ000322_02.0419.C31
Gene No.	115464	Strand	-
Start	2274	End	2737
Name	OJ000322_02.0419.C31.o1.tc	Method	TBLASTX:Cress
Start	1668	End	2303
GI	none	Score	146
Exons	1668..1862, 1860..2303, 1874..2302		

Seq. No.	55103	Seq. ID	OJ000322_02.0419.C31
Gene No.	115464	Strand	-
Start	2274	End	2737
Name	OJ000322_02.0419.C31.o1.tm	Method	TBLASTX:Maize
Start	1734	End	2107
GI	none	Score	119
Exons	1734..1871, 1736..1774, 1860..1946, 1890..2069, 1931..2068, 2060..2107, 2070..2105		

Seq. No.	55103	Seq. ID	OJ000322_02.0419.C31
Gene No.	115464	Strand	-
Start	2274	End	2737
Name	OJ000322_02.0419.C31.o3.gp	Method	AAT/GAP
Start	2274	End	2737

GI	none	Score	921
Exons	2274..2737		

Seq. No.	55104	Seq. ID	OJ000322_02.0419.C32
Gene No.	115465	Strand	-
Start	667	End	1183
Name	OJ000322_02.0419.C32.o1.gp	Method	AAT/GAP
Start	413	End	1183
GI	5324_1.R1084	Score	1339
Exons	413..921, 1004..1183		
GI Descrip.	'4836907/gb|AAD30609.1|AC007153_1 1.0e-48 (AC007153) Highly similar to putative callose synthase catalytic subunit [Arabidopsis thaliana]'		

Seq. No.	55104	Seq. ID	OJ000322_02.0419.C32
Gene No.	115465	Strand	-
Start	667	End	1183
Name	OJ000322_02.0419.C32.o1.tc	Method	TBLASTX:Cress
Start	658	End	1135
GI	none	Score	175
Exons	658..921, 737..922, 974..1135, 1001..1072		

Seq. No.	55104	Seq. ID	OJ000322_02.0419.C32
Gene No.	115465	Strand	-
Start	667	End	1183
Name	OJ000322_02.0419.C32.o1.gs	Method	GENSCAN
Start	667	End	921
GI	none	Score	.94
Exons	667..921		

Seq. No.	55104	Seq. ID	OJ000322_02.0419.C32
Gene No.	115465	Strand	-
Start	667	End	1183
Name	OJ000322_02.0419.C32.o1.tm	Method	TBLASTX:Maize
Start	667	End	1183
GI	none	Score	244
Exons	667..702, 676..921, 698..925, 699..926, 715..927, 960..1175, 1001..1183, 1008..1181		

Seq. No.	55104	Seq. ID	OJ000322_02.0419.C32
Gene No.	115465	Strand	-
Start	667	End	1183
Name	OJ000322_02.0419.C32.o1.np	Method	AAT/NAP
Start	676	End	1183
GI	3935157	Score	505
Exons	676..921, 1004..1183		
GI Descrip.	(AC005106) T25N20.21 [Arabidopsis thaliana]		

Seq. No.	55104	Seq. ID	OJ000322_02.0419.C32
Gene No.	115465	Strand	-
Start	667	End	1183
Name	OJ000322_02.0419.C32.o1.ts	Method	TBLASTX:Soybean
Start	679	End	1183
GI	none	Score	62
Exons	679..930, 699..806, 731..922, 1001..1183, 1008..1181		

Seq. No.	55104	Seq. ID	OJ000322_02.0419.C32

Gene No.	115465	Strand	-
Start	667	End	1183
Name	OJ000322_02.0419.C32.o1.tw	Method	TBLASTX:Wheat
Start	694	End	1171
GI	none	Score	124
Exons	694..930, 727..927, 731..931, 1001..1171, 1014..1169		

Seq. No.	55105	Seq. ID	OJ000322_02.0419.C35
Gene No.	115466	Strand	-
Start	141	End	292
Name	OJ000322_02.0419.C35.o1.gs	Method	GENSCAN
Start	141	End	292
GI	none	Score	.93
Exons	141..292		

Seq. No.	55106	Seq. ID	OJ000322_02.0419.C36
Gene No.	115467	Strand	+
Start	1	End	1734
Name	OJ000322_02.0419.C36.o1.np	Method	AAT/NAP
Start	1	End	1734
GI	1389768	Score	307
Exons	1..54, 1152..1299, 1388..1549, 1696..1734		
GI Descrip.	(U58942) phosphoribosylanthranilate transferase [Arabidopsis thaliana]		

Seq. No.	55106	Seq. ID	OJ000322_02.0419.C36
Gene No.	115467	Strand	+
Start	1	End	1734
Name	OJ000322_02.0419.C36.o1.gs	Method	GENSCAN
Start	842	End	1549
GI	none	Score	.98
Exons	842..1036, 1156..1299, 1388..1549		

Seq. No.	55106	Seq. ID	OJ000322_02.0419.C36
Gene No.	115467	Strand	+
Start	1	End	1734
Name	OJ000322_02.0419.C36.o1.tm	Method	TBLASTX:Maize
Start	1153	End	1513
GI	none	Score	42
Exons	1153..1191, 1153..1188, 1246..1320, 1258..1302, 1385..1513, 1385..1459		

Seq. No.	55106	Seq. ID	OJ000322_02.0419.C36
Gene No.	115467	Strand	+
Start	1	End	1734
Name	OJ000322_02.0419.C36.o1.ts	Method	TBLASTX:Soybean
Start	1257	End	1516
GI	none	Score	67
Exons	1257..1301, 1261..1302, 1385..1516		

Seq. No.	55107	Seq. ID	OJ000322_02.0419.C37
Gene No.	115468	Strand	+
Start	1	End	2863
Name	OJ000322_02.0419.C37.o1.np	Method	AAT/NAP
Start	1	End	2781
GI	1389768	Score	605
Exons	1..88, 1006..1194, 1665..1755, 1897..1956, 2183..2301,		

	2629..2781		
GI Descrip.	(U58942) phosphoribosylanthranilate transferase [Arabidopsis thaliana]		
Seq. No.	55107	Seq. ID	OJ000322_02.0419.C37
Gene No.	115468	Strand	+
Start	1	End	2863
Name	OJ000322_02.0419.C37.o1.gs	Method	GENSCAN
Start	1006	End	2863
GI	none	Score	.93
Exons	1006..1194, 1665..1755, 2183..2301, 2629..2763, 2813..2863		
Seq. No.	55107	Seq. ID	OJ000322_02.0419.C37
Gene No.	115468	Strand	+
Start	1	End	2863
Name	OJ000322_02.0419.C37.o1.gp	Method	AAT/GAP
Start	1678	End	2750
GI	LIB3434-026-P1-K1-E6	Score	658
Exons	1678..1755, 1897..1956, 2183..2301, 2629..2750		
GI Descrip.	'1389768 1.0e-34 (U58942) phosphoribosylanthranilate transferase [Arabidopsis thaliana]'		
Seq. No.	55107	Seq. ID	OJ000322_02.0419.C37
Gene No.	115469	Strand	-
Start	3479	End	4802
Name	OJ000322_02.0419.C37.o1.tm	Method	TBLASTX:Maize
Start	1003	End	2762
GI	none	Score	309
Exons	1003..1188, 1003..1194, 1005..1199, 1110..1190, 1664..1756, 1665..1757, 1665..1757, 1699..1758, 1883..1957, 1884..1955, 1903..1956, 1904..1957, 2156..2296, 2161..2241, 2161..2298, 2163..2297, 2164..2298, 2176..2301, 2176..2301, 2178..2303, 2178..2303, 2628..2672, 2631..2672, 2695..2754, 2697..2762		
Seq. No.	55107	Seq. ID	OJ000322_02.0419.C37
Gene No.	115469	Strand	-
Start	3479	End	4802
Name	OJ000322_02.0419.C37.o2.gp	Method	AAT/GAP
Start	3253	End	3669
GI	none	Score	758
Exons	3253..3669		
Seq. No.	55107	Seq. ID	OJ000322_02.0419.C37
Gene No.	115469	Strand	-
Start	3479	End	4802
Name	OJ000322_02.0419.C37.o2.gs	Method	GENSCAN
Start	3479	End	4802
GI	none	Score	.83
Exons	3479..3632, 4333..4802		
Seq. No.	55108	Seq. ID	OJ000302_02.0419.C5
Gene No.	115470	Strand	+
Start	4074	End	6931
Name	OJ000302_02.0419.C5.o1.np	Method	AAT/NAP
Start	4074	End	4594
GI	6523547	Score	94
Exons	4074..4165, 4249..4594		

GI Descrip. (AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox carteri f. nagariensis]

Seq. No.	55108	Seq. ID	OJ000302_02.0419.C5
Gene No.	115470	Strand	+
Start	4074	End	6931
Name	OJ000302_02.0419.C5.o1.gs	Method	GENSCAN
Start	4119	End	6931
GI	none	Score	.52
Exons	4119..4308, 4459..4524, 4827..4969, 5394..5492, 6884..6931		

Seq. No.	55108	Seq. ID	OJ000302_02.0419.C5
Gene No.	115471	Strand	-
Start	10307	End	10470
Name	OJ000302_02.0419.C5.o2.gs	Method	GENSCAN
Start	10307	End	10470
GI	none	Score	.97
Exons	10307..10470		

Seq. No.	55109	Seq. ID	OJ000302_02.0419.C6
Gene No.	115472	Strand	+
Start	1	End	14154
Name	OJ000302_02.0419.C6.o9.np	Method	AAT/NAP
Start	1	End	8612
GI	4557876	Score	290
Exons	1..82, 2920..3157, 3344..3567, 3668..3777, 3874..3999, 4140..4221, 4300..4405, 4483..4571, 4680..4950, 8545..8612		
GI Descrip.	ATP binding cassette transporter gi|1888527|gb|AAC51144.1| (U88667) ATP-binding cassette transporter [Homo sapiens]		

Seq. No.	55109	Seq. ID	OJ000302_02.0419.C6
Gene No.	115472	Strand	+
Start	1	End	14154
Name	OJ000302_02.0419.C6.o1.gs	Method	GENSCAN
Start	79	End	13503
GI	none	Score	.78
Exons	79..327, 574..656, 761..905, 929..965, 1282..1367, 1618..1746, 1842..1966, 2056..2214, 2298..2460, 2545..2670, 2905..3266, 3367..3520, 4082..4221, 4680..4975, 6607..6631, 7541..7684, 7844..7956, 8086..8240, 8545..8705, 8923..9100, 9439..9542, 9657..9798, 9912..10031, 10135..10259, 10697..10855, 10955..11117, 11380..11505, 11615..11967, 12257..12457, 12656..12748, 13159..13287, 13390..13503		

Seq. No.	55109	Seq. ID	OJ000302_02.0419.C6
Gene No.	115472	Strand	+
Start	1	End	14154
Name	OJ000302_02.0419.C6.o1.np	Method	AAT/NAP
Start	112	End	4976
GI	7488040	Score	2352
Exons	112..565, 784..905, 1618..1746, 1842..1966, 2056..2214, 2298..2460, 2545..2670, 2743..2826, 2905..3270, 3371..3567, 3668..3777, 3874..3958, 4093..4221, 4300..4405, 4483..4571, 4680..4976		
GI Descrip.	probable ABC-type transport protein T23J7.110 - Arabidopsis thaliana gi|4741195|emb|CAB41861.1| (AL049746) ABC transporter-like protein [Arabidopsis thaliana]		

Seq. No.	55109	Seq. ID	OJ000302_02.0419.C6
Gene No.	115472	Strand	+
Start	1	End	14154
Name	OJ000302_02.0419.C6.o1.gp	Method	AAT/GAP
Start	3867	End	5075
GI	60338_1.R1084	Score	1495
Exons	3867..3958, 4093..4221, 4300..4405, 4483..4571, 4680..5075		
GI Descrip.	'4741195/emb|CAB41861.1| 1.0e-101 (AL049746) ABC transporter-like protein [Arabidopsis thaliana]'		

Seq. No.	55109	Seq. ID	OJ000302_02.0419.C6
Gene No.	115472	Strand	+
Start	1	End	14154
Name	OJ000302_02.0419.C6.o2.np	Method	AAT/NAP
Start	7772	End	11415
GI	7488044	Score	614
Exons	7772..8176, 9657..9804, 9912..10031, 10135..10259, 10697..10855, 10955..11117, 11214..11339, 11389..11415		
GI Descrip.	probable ABC-type transport protein T23J7.80 - Arabidopsis thaliana gi|4741192|emb|CAB41858.1| (AL049746) ABC transporter-like protein [Arabidopsis thaliana]		

Seq. No.	55109	Seq. ID	OJ000302_02.0419.C6
Gene No.	115472	Strand	+
Start	1	End	14154
Name	OJ000302_02.0419.C6.o3.np	Method	AAT/NAP
Start	8371	End	13058
GI	7488044	Score	1012
Exons	8371..8430, 9920..10031, 10135..10259, 10697..10855, 10955..11117, 11214..11339, 11422..11505, 11615..11967, 12257..12457, 12656..12765, 12866..13058		
GI Descrip.	probable ABC-type transport protein T23J7.80 - Arabidopsis thaliana gi|4741192|emb|CAB41858.1| (AL049746) ABC transporter-like protein [Arabidopsis thaliana]		

Seq. No.	55109	Seq. ID	OJ000302_02.0419.C6
Gene No.	115472	Strand	+
Start	1	End	14154
Name	OJ000302_02.0419.C6.o4.np	Method	AAT/NAP
Start	8453	End	12953
GI	7488040	Score	1190
Exons	8453..8711, 9657..9812, 9920..10031, 10135..10259, 10697..10855, 10955..11117, 11214..11339, 11422..11505, 11615..11967, 12257..12457, 12656..12765, 12866..12953		
GI Descrip.	probable ABC-type transport protein T23J7.110 - Arabidopsis thaliana gi|4741195|emb|CAB41861.1| (AL049746) ABC transporter-like protein [Arabidopsis thaliana]		

Seq. No.	55109	Seq. ID	OJ000302_02.0419.C6
Gene No.	115472	Strand	+
Start	1	End	14154
Name	OJ000302_02.0419.C6.o5.np	Method	AAT/NAP
Start	8890	End	13592
GI	7488040	Score	1436
Exons	8890..8939, 9673..9812, 9920..10031, 10135..10259, 10697..10855, 10955..11117, 11214..11339, 11422..11505, 11615..11967,		

12257..12457, 12656..12765, 12866..12950, 13159..13287,
13390..13495, 13567..13592
GI Descrip. probable ABC-type transport protein T23J7.110 - Arabidopsis thaliana gi|4741195|emb|CAB41861.1| (AL049746) ABC transporter-like protein [Arabidopsis thaliana]

Seq. No.	55109	Seq. ID	OJ000302_02.0419.C6
Gene No.	115472	Strand	+
Start	1	End	14154
Name	OJ000302_02.0419.C6.o6.np	Method	AAT/NAP
Start	8989	End	13691
GI	7488040	Score	1541

Exons 8989..9051, 9657..9812, 9920..10031, 10135..10259, 10697..10855, 10955..11117, 11214..11339, 11422..11505, 11615..11967, 12257..12457, 12656..12765, 12866..12950, 13159..13287, 13390..13495, 13619..13691
GI Descrip. probable ABC-type transport protein T23J7.110 - Arabidopsis thaliana gi|4741195|emb|CAB41861.1| (AL049746) ABC transporter-like protein [Arabidopsis thaliana]

Seq. No.	55109	Seq. ID	OJ000302_02.0419.C6
Gene No.	115472	Strand	+
Start	1	End	14154
Name	OJ000302_02.0419.C6.o7.np	Method	AAT/NAP
Start	9085	End	13787
GI	7488040	Score	1531

Exons 9085..9171, 9657..9812, 9920..10031, 10135..10259, 10697..10855, 10955..11117, 11214..11339, 11422..11505, 11615..11967, 12257..12457, 12656..12765, 12866..12950, 13159..13287, 13390..13495, 13619..13787
GI Descrip. probable ABC-type transport protein T23J7.110 - Arabidopsis thaliana gi|4741195|emb|CAB41861.1| (AL049746) ABC transporter-like protein [Arabidopsis thaliana]

Seq. No.	55109	Seq. ID	OJ000302_02.0419.C6
Gene No.	115472	Strand	+
Start	1	End	14154
Name	OJ000302_02.0419.C6.o8.np	Method	AAT/NAP
Start	9276	End	13978
GI	7488040	Score	1573

Exons 9276..9329, 9631..9812, 9920..10031, 10135..10259, 10697..10855, 10955..11117, 11214..11339, 11422..11505, 11615..11967, 12257..12457, 12656..12765, 12866..12950, 13159..13287, 13390..13495, 13619..13707, 13858..13978
GI Descrip. probable ABC-type transport protein T23J7.110 - Arabidopsis thaliana gi|4741195|emb|CAB41861.1| (AL049746) ABC transporter-like protein [Arabidopsis thaliana]

Seq. No.	55109	Seq. ID	OJ000302_02.0419.C6
Gene No.	115472	Strand	+
Start	1	End	14154
Name	OJ000302_02.0419.C6.o10.np	Method	AAT/NAP
Start	11615	End	14154
GI	7488045	Score	726

Exons 11615..11967, 12656..12770, 12844..12950, 13159..13287, 13390..13495, 13619..13707, 13858..14154
GI Descrip. probable ABC-type transport protein T23J7.90 - Arabidopsis

thaliana gi|4741193|emb|CAB41859.1| (AL049746) ABC transporter-like protein [Arabidopsis thaliana]

Seq. No.	55109	Seq. ID	OJ000302_02.0419.C6
Gene No.	115473	Strand	-
Start	13795	End	14269
Name	OJ000302_02.0419.C6.o4.tm	Method	TBLASTX:Maize
Start	2328	End	11328
GI	none	Score	152
Exons	2328..2462, 2375..2461, 2543..2662, 2544..2618, 2546..2662, 10985..11119, 10988..11104, 10990..11118, 11212..11328, 11213..11317		

Seq. No.	55109	Seq. ID	OJ000302_02.0419.C6
Gene No.	115473	Strand	-
Start	13795	End	14269
Name	OJ000302_02.0419.C6.o2.tm	Method	TBLASTX:Maize
Start	2736	End	12358
GI	none	Score	126
Exons	2736..2825, 2738..2815, 2898..3194, 2904..3173, 2906..3181, 3361..3468, 3366..3476, 3396..3470, 11421..11504, 11620..11826, 11631..11831, 11632..11835, 12254..12358		

Seq. No.	55109	Seq. ID	OJ000302_02.0419.C6
Gene No.	115473	Strand	-
Start	13795	End	14269
Name	OJ000302_02.0419.C6.o1.tw	Method	TBLASTX:Wheat
Start	2906	End	11863
GI	none	Score	362
Exons	2906..3166, 2907..3149, 2907..3170, 3177..3266, 3198..3266, 11620..11826, 11625..11816, 11633..11827, 11660..11863		

Seq. No.	55109	Seq. ID	OJ000302_02.0419.C6
Gene No.	115473	Strand	-
Start	13795	End	14269
Name	OJ000302_02.0419.C6.o2.ts	Method	TBLASTX:Soybean
Start	2910	End	11825
GI	none	Score	232
Exons	2910..3137, 2912..3136, 11619..11825, 11620..11769		

Seq. No.	55109	Seq. ID	OJ000302_02.0419.C6
Gene No.	115473	Strand	-
Start	13795	End	14269
Name	OJ000302_02.0419.C6.o3.tm	Method	TBLASTX:Maize
Start	3676	End	13496
GI	none	Score	143
Exons	3676..3786, 3677..3772, 3839..3958, 3874..3957, 4081..4221, 4081..4215, 4092..4220, 12664..12774, 12665..12760, 12864..12941, 12865..12951, 12866..12955, 12980..13012, 13150..13293, 13152..13292, 13393..13476, 13407..13496		

Seq. No.	55109	Seq. ID	OJ000302_02.0419.C6
Gene No.	115473	Strand	-
Start	13795	End	14269
Name	OJ000302_02.0419.C6.o1.ts	Method	TBLASTX:Soybean
Start	3746	End	13496
GI	none	Score	59

Exons	3746..3778, 3748..3798, 3860..3952, 3874..3942, 4081..4227, 4090..4215, 4092..4226, 4294..4401, 4298..4402, 4299..4406, 4300..4416, 12734..12766, 12742..12771, 12866..12955, 12867..12941, 13149..13292, 13150..13293, 13366..13476, 13390..13494, 13407..13496		
Seq. No.	55109	Seq. ID	OJ000302_02.0419.C6
Gene No.	115473	Strand	-
Start	13795	End	14269
Name	OJ000302_02.0419.C6.o1.tm	Method	TBLASTX:Maize
Start	4287	End	14136
GI	none	Score	67
Exons	4287..4406, 4300..4437, 4536..4574, 4677..4982, 4679..4984, 13864..14136		
Seq. No.	55109	Seq. ID	OJ000302_02.0419.C6
Gene No.	115473	Strand	-
Start	13795	End	14269
Name	OJ000302_02.0419.C6.o3.ts	Method	TBLASTX:Soybean
Start	4797	End	14139
GI	none	Score	220
Exons	4797..4982, 4799..4954, 13975..14139		
Seq. No.	55109	Seq. ID	OJ000302_02.0419.C6
Gene No.	115473	Strand	-
Start	13795	End	14269
Name	OJ000302_02.0419.C6.o2.gs	Method	GENSCAN
Start	13795	End	14269
GI	none	Score	.7
Exons	13795..14031, 14092..14269		
Seq. No.	55110	Seq. ID	OJ000302_02.0419.C7
Gene No.	115474	Strand	+
Start	224	End	1351
Name	OJ000302_02.0419.C7.o1.gs	Method	GENSCAN
Start	224	End	1351
GI	none	Score	.58
Exons	224..270, 541..637, 1157..1351		
Seq. No.	55111	Seq. ID	OJ000302_02.0419.C8
Gene No.	115475	Strand	+
Start	48	End	3349
Name	OJ000302_02.0419.C8.o1.gp	Method	AAT/GAP
Start	48	End	2636
GI	25375_1.R1084	Score	922
Exons	48..145, 1840..2035, 2306..2426, 2550..2636		
GI Descrip.	'3928150/emb|CAA10289| 4.0e-50 (AJ131049) hypothetical protein [Cicer arietinum]'		
Seq. No.	55111	Seq. ID	OJ000302_02.0419.C8
Gene No.	115475	Strand	+
Start	48	End	3349
Name	OJ000302_02.0419.C8.o1.np	Method	AAT/NAP
Start	1847	End	3349
GI	6358809	Score	609
Exons	1847..2035, 2306..2426, 2550..2641, 2714..2814, 3291..3349		
GI Descrip.	(AC010675) unknown protein [Arabidopsis thaliana]		

Seq. No.	55111	Seq. ID	OJ000302_02.0419.C8
Gene No.	115475	Strand	+
Start	48	End	3349
Name	OJ000302_02.0419.C8.o2.gs	Method	GENSCAN
Start	1847	End	2889
GI	none	Score	.94
Exons	1847..2035, 2306..2426, 2550..2641, 2714..2810, 2852..2889		

Seq. No.	55111	Seq. ID	OJ000302_02.0419.C8
Gene No.	115475	Strand	+
Start	48	End	3349
Name	OJ000302_02.0419.C8.o2.gp	Method	AAT/GAP
Start	2758	End	2810
GI	90620_1.R1084	Score	91
Exons	2758..2810		
GI Descrip.	'3928150/emb|CAA10289| 1.0e-56 (AJ131049) hypothetical protein [Cicer arietinum]'		

Seq. No.	55111	Seq. ID	OJ000302_02.0419.C8
Gene No.	115476	Strand	-
Start	299	End	923
Name	OJ000302_02.0419.C8.o1.gs	Method	GENSCAN
Start	299	End	923
GI	none	Score	.62
Exons	299..554, 775..923		

Seq. No.	55111	Seq. ID	OJ000302_02.0419.C8
Gene No.	115477	Strand	
Start	1820	End	2812
Name	OJ000302_02.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	1820	End	2809
GI	none	Score	243
Exons	1820..2050, 1820..2035, 1840..2037, 2303..2437, 2303..2428, 2305..2436, 2402..2425, 2531..2641, 2542..2589, 2549..2644, 2556..2642, 2557..2655, 2699..2806, 2706..2804, 2710..2808, 2714..2809		

Seq. No.	55111	Seq. ID	OJ000302_02.0419.C8
Gene No.	115477	Strand	
Start	1820	End	2812
Name	OJ000302_02.0419.C8.o2.tw	Method	TBLASTX:Wheat
Start	1835	End	1969
GI	none	Score	189
Exons	1835..1969, 1837..1965, 1839..1967		

Seq. No.	55111	Seq. ID	OJ000302_02.0419.C8
Gene No.	115477	Strand	
Start	1820	End	2812
Name	OJ000302_02.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	1837	End	2812
GI	none	Score	334
Exons	1837..2037, 1838..2050, 2289..2426, 2303..2425, 2305..2430, 2531..2641, 2542..2589, 2552..2641, 2553..2642, 2554..2643, 2592..2642, 2710..2808, 2711..2812, 2714..2809		

Seq. No.	55111	Seq. ID	OJ000302_02.0419.C8

Gene No.	115477	Strand	
Start	1820	End	2812
Name	OJ000302_02.0419.C8.o1.tc	Method	TBLASTX:Cress
Start	1840	End	2809
GI	none	Score	73
Exons	1840..2037, 1842..2027, 1847..2050, 2297..2425, 2303..2425, 2305..2430, 2522..2641, 2534..2656, 2710..2808, 2714..2809		

Seq. No.	55111	Seq. ID	OJ000302_02.0419.C8
Gene No.	115477	Strand	
Start	1820	End	2812
Name	OJ000302_02.0419.C8.o1.tw	Method	TBLASTX:Wheat
Start	1970	End	2809
GI	none	Score	100
Exons	1970..2050, 2303..2425, 2303..2425, 2305..2430, 2531..2641, 2540..2641, 2563..2643, 2589..2642, 2688..2765, 2710..2808, 2713..2805, 2714..2809		

Seq. No.	55112	Seq. ID	OJ000302_02.0419.C9
Gene No.	115478	Strand	+
Start	1	End	617
Name	OJ000302_02.0419.C9.o1.gp	Method	AAT/GAP
Start	1	End	617
GI	90620_1.R1084	Score	1182
Exons	1..617		
GI Descrip.	'3928150/emb|CAA10289| 1.0e-56 (AJ131049) hypothetical protein [Cicer arietinum]'		

Seq. No.	55112	Seq. ID	OJ000302_02.0419.C9
Gene No.	115478	Strand	+
Start	1	End	617
Name	OJ000302_02.0419.C9.o1.np	Method	AAT/NAP
Start	1	End	315
GI	3928150	Score	453
Exons	1..315		
GI Descrip.	(AJ131049) hypothetical protein [Cicer arietinum]		

Seq. No.	55112	Seq. ID	OJ000302_02.0419.C9
Gene No.	115479	Strand	+
Start	6633	End	8815
Name	OJ000302_02.0419.C9.o2.np	Method	AAT/NAP
Start	6633	End	8815
GI	7447111	Score	399
Exons	6633..6852, 6938..7114, 8679..8815		
GI Descrip.	glutamyl aminopeptidase homolog F4I10.20 - Arabidopsis thaliana gi|4455323|emb|CAB36783.1| (AL035525) aminopeptidase-like protein [Arabidopsis thaliana] gi|7270256|emb|CAB80026.1| (AL161582) aminopeptidase-like protein [Arabidopsis thaliana]		

Seq. No.	55112	Seq. ID	OJ000302_02.0419.C9
Gene No.	115480	Strand	-
Start	2291	End	8801
Name	OJ000302_02.0419.C9.o1.tc	Method	TBLASTX:Cress
Start	1	End	297
GI	none	Score	438
Exons	1..297, 3..287, 4..297		

Seq. No.	55112	Seq. ID	OJ000302_02.0419.C9
Gene No.	115480	Strand	-
Start	2291	End	8801
Name	OJ000302_02.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	1	End	314
GI	none	Score	466
Exons	1..306, 3..314, 12..302		

Seq. No.	55112	Seq. ID	OJ000302_02.0419.C9
Gene No.	115480	Strand	-
Start	2291	End	8801
Name	OJ000302_02.0419.C9.o1.ts	Method	TBLASTX:Soybean
Start	1	End	301
GI	none	Score	466
Exons	1..300, 12..287, 152..301		

Seq. No.	55112	Seq. ID	OJ000302_02.0419.C9
Gene No.	115480	Strand	-
Start	2291	End	8801
Name	OJ000302_02.0419.C9.o1.tw	Method	TBLASTX:Wheat
Start	19	End	192
GI	none	Score	61
Exons	19..135, 23..136, 27..140, 28..150, 142..192		

Seq. No.	55112	Seq. ID	OJ000302_02.0419.C9
Gene No.	115480	Strand	-
Start	2291	End	8801
Name	OJ000302_02.0419.C9.o2.gs	Method	GENSCAN
Start	2291	End	7218
GI	none	Score	.44
Exons	2291..2602, 2905..2958, 6096..6218, 6711..6823, 6843..7070, 7093..7218		

Seq. No.	55112	Seq. ID	OJ000302_02.0419.C9
Gene No.	115480	Strand	-
Start	2291	End	8801
Name	OJ000302_02.0419.C9.o2.tm	Method	TBLASTX:Maize
Start	6621	End	7032
GI	none	Score	185
Exons	6621..6830, 6641..6673, 6764..6808, 6927..7031, 6934..7032		

Seq. No.	55112	Seq. ID	OJ000302_02.0419.C9
Gene No.	115480	Strand	-
Start	2291	End	8801
Name	OJ000302_02.0419.C9.o2.tc	Method	TBLASTX:Cress
Start	6636	End	8767
GI	none	Score	139
Exons	6636..6827, 6937..7077, 6990..7079, 8686..8766, 8687..8767		

Seq. No.	55112	Seq. ID	OJ000302_02.0419.C9
Gene No.	115480	Strand	-
Start	2291	End	8801
Name	OJ000302_02.0419.C9.o2.ts	Method	TBLASTX:Soybean
Start	6636	End	8801
GI	none	Score	128
Exons	6636..6827, 6943..7077, 6990..7079, 8683..8790, 8687..8791, 8694..8801, 8694..8792		

Seq. No.	55113	Seq. ID	OJ000302_02.0419.C10
Gene No.	115481	Strand	+
Start	1	End	1191
Name	OJ000302_02.0419.C10.o1.np	Method	AAT/NAP
Start	1	End	1191
GI	6679491	Score	499
Exons	1..103, 221..314, 423..576, 732..836, 929..1053, 1148..1191		
GI Descrip.	puromycin-sensitive aminopeptidase gi|2499903|sp|Q11011|PSA_MOUSE PUROMYCIN-SENSITIVE AMINOPEPTIDASE (PSA) gi|7447108|pir||T10052 aminopeptidase (EC 3.4.11.-) - mouse gi|1184161|gb|AAC52409.1| (U35646) aminopeptidase [Mus musculus] gi|1585925|prf||2202260A puromycin sensitive aminopeptidase [Mus musculus]		

Seq. No.	55113	Seq. ID	OJ000302_02.0419.C10
Gene No.	115481	Strand	+
Start	1	End	1191
Name	OJ000302_02.0419.C10.o1.tm	Method	TBLASTX:Maize
Start	6	End	972
GI	none	Score	126
Exons	6..101, 6..110, 7..105, 216..314, 220..315, 220..324, 227..325, 227..325, 411..578, 423..578, 424..579, 731..832, 731..832, 732..833, 928..972, 929..970		

Seq. No.	55113	Seq. ID	OJ000302_02.0419.C10
Gene No.	115481	Strand	+
Start	1	End	1191
Name	OJ000302_02.0419.C10.o1.gs	Method	GENSCAN
Start	221	End	1045
GI	none	Score	.91
Exons	221..314, 423..576, 929..1045		

Seq. No.	55113	Seq. ID	OJ000302_02.0419.C10
Gene No.	115481	Strand	+
Start	1	End	1191
Name	OJ000302_02.0419.C10.o1.tc	Method	TBLASTX:Cress
Start	423	End	1048
GI	none	Score	105
Exons	423..545, 424..579, 426..578, 730..837, 731..838, 732..854, 928..1047, 929..1048		

Seq. No.	55113	Seq. ID	OJ000302_02.0419.C10
Gene No.	115481	Strand	+
Start	1	End	1191
Name	OJ000302_02.0419.C10.o1.ts	Method	TBLASTX:Soybean
Start	502	End	1048
GI	none	Score	101
Exons	502..579, 730..837, 731..838, 732..854, 928..1047, 929..1048, 929..1048		

Seq. No.	55114	Seq. ID	OJ000302_02.0419.C11
Gene No.	115482	Strand	+
Start	1	End	3846
Name	OJ000302_02.0419.C11.o1.np	Method	AAT/NAP
Start	1	End	3846
GI	7447111	Score	878

Exons	1..212, 1008..1298, 1385..1516, 1628..1715, 1934..2111, 2189..2303, 2390..2496, 2585..2662, 3794..3846
GI Descrip.	glutamyl aminopeptidase homolog F4I10.20 - Arabidopsis thaliana gi|4455323|emb|CAB36783.1| (AL035525) aminopeptidase-like protein [Arabidopsis thaliana] gi|7270256|emb|CAB80026.1| (AL161582) aminopeptidase-like protein [Arabidopsis thaliana]

Seq. No.	55114	Seq. ID	OJ000302_02.0419.C11
Gene No.	115482	Strand	+
Start	1	End	3846
Name	OJ000302_02.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	24	End	3846
GI	none	Score	316
Exons	24..212, 26..214, 41..211, 151..219, 974..1114, 999..1118, 1133..1300, 1163..1300, 1164..1301, 1383..1508, 1384..1509, 1384..1512, 1617..1691, 1618..1710, 1618..1701, 1619..1711, 1619..1711, 1908..2126, 1908..2102, 1931..2110, 1940..2140, 2180..2302, 2186..2305, 2188..2307, 2376..2459, 2395..2460, 2396..2458, 2410..2481, 2561..2674, 2585..2662, 3788..3844, 3793..3846		

Seq. No.	55114	Seq. ID	OJ000302_02.0419.C11
Gene No.	115482	Strand	+
Start	1	End	3846
Name	OJ000302_02.0419.C11.o1.ts	Method	TBLASTX:Soybean
Start	24	End	2110
GI	none	Score	217
Exons	24..212, 41..169, 1005..1115, 1010..1105, 1163..1261, 1166..1300, 1383..1511, 1384..1512, 1618..1716, 1881..2108, 1934..2110		

Seq. No.	55114	Seq. ID	OJ000302_02.0419.C11
Gene No.	115482	Strand	+
Start	1	End	3846
Name	OJ000302_02.0419.C11.o2.tc	Method	TBLASTX:Cress
Start	147	End	1302
GI	none	Score	58
Exons	147..212, 968..1102, 990..1115, 1168..1302, 1169..1300		

Seq. No.	55114	Seq. ID	OJ000302_02.0419.C11
Gene No.	115482	Strand	+
Start	1	End	3846
Name	OJ000302_02.0419.C11.o1.gs	Method	GENSCAN
Start	1092	End	2662
GI	none	Score	.85
Exons	1092..1298, 1385..1506, 1618..1715, 2164..2303, 2390..2457, 2585..2662		

Seq. No.	55114	Seq. ID	OJ000302_02.0419.C11
Gene No.	115482	Strand	+
Start	1	End	3846
Name	OJ000302_02.0419.C11.o1.tc	Method	TBLASTX:Cress
Start	1426	End	2307
GI	none	Score	80
Exons	1426..1512, 1936..2031, 1937..2038, 1937..2107, 1938..2111, 2186..2305, 2188..2307, 2200..2307		

Seq. No.	55114	Seq. ID	OJ000302_02.0419.C11
Gene No.	115482	Strand	+
Start	1	End	3846
Name	OJ000302_02.0419.C11.o1.gp	Method	AAT/GAP
Start	1923	End	2624
GI	LIB3431-016-P1-K1-G10	Score	726
Exons	1923..2111, 2189..2303, 2390..2457, 2585..2624		
GI Descrip.	'4455323/emb|CAB36783.1| 1.0e-38 (AL035525) aminopeptidase-like protein [Arabidopsis thaliana]'		

Seq. No.	55115	Seq. ID	OJ000302_02.0419.C12
Gene No.	115483	Strand	+
Start	2392	End	7988
Name	OJ000302_02.0419.C12.o2.np	Method	AAT/NAP
Start	2191	End	6645
GI	7339707	Score	250
Exons	2191..2328, 2363..2442, 2661..3188, 4501..4696, 6606..6645		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	55115	Seq. ID	OJ000302_02.0419.C12
Gene No.	115483	Strand	+
Start	2392	End	7988
Name	OJ000302_02.0419.C12.o2.gs	Method	GENSCAN
Start	2392	End	7988
GI	none	Score	.59
Exons	2392..2955, 3061..3177, 4473..4712, 5324..5439, 5854..6299, 6414..6620, 6681..6912, 7496..7988		

Seq. No.	55115	Seq. ID	OJ000302_02.0419.C12
Gene No.	115483	Strand	+
Start	2392	End	7988
Name	OJ000302_02.0419.C12.o1.gp	Method	AAT/GAP
Start	2523	End	2893
GI	5455575	Score	742
Exons	2523..2893		

Seq. No.	55115	Seq. ID	OJ000302_02.0419.C12
Gene No.	115483	Strand	+
Start	2392	End	7988
Name	OJ000302_02.0419.C12.o2.gp	Method	AAT/GAP
Start	2981	End	3326
GI	427622	Score	655
Exons	2981..3326		

Seq. No.	55115	Seq. ID	OJ000302_02.0419.C12
Gene No.	115483	Strand	+
Start	2392	End	7988
Name	OJ000302_02.0419.C12.o3.np	Method	AAT/NAP
Start	5780	End	6985
GI	5922636	Score	347
Exons	5780..5852, 6329..6563, 6854..6985		
GI Descrip.	(AP000492) ESTs C99517(E20319),AU078130(E20319) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6016869|dbj|BAA85212.1| (AP000570) ESTs C99517(E20319),AU078130(E20319) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	55115	Seq. ID	OJ000302_02.0419.C12
Gene No.	115484	Strand	-
Start	259	End	1563
Name	OJ000302_02.0419.C12.o1.gs	Method	GENSCAN
Start	259	End	1542
GI	none	Score	.91
Exons	259..330, 420..530, 642..728, 829..920, 1131..1270, 1364..1542		

Seq. No.	55115	Seq. ID	OJ000302_02.0419.C12
Gene No.	115484	Strand	-
Start	259	End	1563
Name	OJ000302_02.0419.C12.o1.np	Method	AAT/NAP
Start	262	End	1563
GI	7486231	Score	308
Exons	262..330, 420..530, 642..728, 1077..1243, 1424..1563		
GI Descrip.	hypothetical protein F27B13.60 - Arabidopsis thaliana gi|4914406|emb|CAB43657.1| (AL050352) mRNA cleavage factor subunit-like protein [Arabidopsis thaliana] gi|7269881|emb|CAB79740.1| (AL161575) mRNA cleavage factor subunit-like protein [Arabidopsis thaliana]		

Seq. No.	55115	Seq. ID	OJ000302_02.0419.C12
Gene No.	115485	Strand	-
Start	8117	End	10749
Name	OJ000302_02.0419.C12.o1.ts	Method	TBLASTX:Soybean
Start	259	End	1272
GI	none	Score	55
Exons	259..333, 260..328, 426..533, 430..534, 640..726, 642..728, 1122..1247, 1135..1272		

Seq. No.	55115	Seq. ID	OJ000302_02.0419.C12
Gene No.	115485	Strand	-
Start	8117	End	10749
Name	OJ000302_02.0419.C12.o3.gs	Method	GENSCAN
Start	8117	End	10749
GI	none	Score	.43
Exons	8117..8121, 9951..10037, 10577..10749		

Seq. No.	55116	Seq. ID	OJ000302_02.0419.C13
Gene No.	115486	Strand	+
Start	815	End	1287
Name	OJ000302_02.0419.C13.o1.gs	Method	GENSCAN
Start	815	End	1287
GI	none	Score	.53
Exons	815..876, 1260..1287		

Seq. No.	55117	Seq. ID	OJ000302_02.0419.C14
Gene No.	115487	Strand	+
Start	95	End	1166
Name	OJ000302_02.0419.C14.o1.gs	Method	GENSCAN
Start	95	End	1166
GI	none	Score	.44
Exons	95..1166		

Seq. No.	55118	Seq. ID	OJ000302_02.0419.C15
Gene No.	115488	Strand	-
Start	2245	End	2920

Name	OJ000302_02.0419.C15.o2.gs	Method	GENSCAN
Start	2245	End	2920
GI	none	Score	.82
Exons	2245..2366, 2845..2920		

Seq. No.	55119	Seq. ID	OJ000302_02.0419.C16
Gene No.	115489	Strand	-
Start	854	End	1336
Name	OJ000302_02.0419.C16.o1.gs	Method	GENSCAN
Start	854	End	1336
GI	none	Score	.77
Exons	854..1336		

Seq. No.	55120	Seq. ID	OJ000302_02.0419.C17
Gene No.	115490	Strand	+
Start	1801	End	4244
Name	OJ000302_02.0419.C17.o1.np	Method	AAT/NAP
Start	1801	End	4244
GI	4314371	Score	245
Exons	1801..2330, 4148..4244		
GI Descrip.	(AC006340) similar to mammalian MHC III region protein G9a [Arabidopsis thaliana]		

Seq. No.	55120	Seq. ID	OJ000302_02.0419.C17
Gene No.	115491	Strand	-
Start	4129	End	4422
Name	OJ000302_02.0419.C17.o1.tm	Method	TBLASTX:Maize
Start	1803	End	2291
GI	none	Score	108
Exons	1803..1967, 1992..2186, 2238..2291		

Seq. No.	55120	Seq. ID	OJ000302_02.0419.C17
Gene No.	115491	Strand	-
Start	4129	End	4422
Name	OJ000302_02.0419.C17.o2.np	Method	AAT/NAP
Start	4129	End	4422
GI	6539588	Score	166
Exons	4129..4422		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	55121	Seq. ID	OJ000302_02.0419.C18
Gene No.	115492	Strand	+
Start	2417	End	5381
Name	OJ000302_02.0419.C18.o2.gs	Method	GENSCAN
Start	2417	End	5381
GI	none	Score	.64
Exons	2417..2530, 2553..2656, 4685..4745, 5247..5381		

Seq. No.	55121	Seq. ID	OJ000302_02.0419.C18
Gene No.	115493	Strand	+
Start	10047	End	13861
Name	OJ000302_02.0419.C18.o3.np	Method	AAT/NAP
Start	10047	End	13861
GI	7447111	Score	185
Exons	10047..10067, 13504..13692, 13772..13861		
GI Descrip.	glutamyl aminopeptidase homolog F4I10.20 - Arabidopsis thaliana gi|4455323|emb|CAB36783.1| (AL035525) aminopeptidase-like		

protein [Arabidopsis thaliana] gi|7270256|emb|CAB80026.1|
(AL161582) aminopeptidase-like protein [Arabidopsis thaliana]

Seq. No.	55121	Seq. ID	OJ000302_02.0419.C18
Gene No.	115493	Strand	+
Start	10047	End	13861
Name	OJ000302_02.0419.C18.o2.np	Method	AAT/NAP
Start	11046	End	13861
GI	4314371	Score	272
Exons	11046..11174, 12842..13482, 13813..13861		
GI Descrip.	(AC006340) similar to mammalian MHC III region protein G9a [Arabidopsis thaliana]		

Seq. No.	55121	Seq. ID	OJ000302_02.0419.C18
Gene No.	115494	Strand	-
Start	1	End	4883
Name	OJ000302_02.0419.C18.o1.np	Method	AAT/NAP
Start	1	End	4883
GI	5669636	Score	843
Exons	1..100, 657..841, 1380..1554, 3847..3927, 4317..4489, 4583..4883		
GI Descrip.	(AF096247) ethylene-responsive elongation factor EF-Ts precursor [Lycopersicon esculentum]		

Seq. No.	55121	Seq. ID	OJ000302_02.0419.C18
Gene No.	115494	Strand	-
Start	1	End	4883
Name	OJ000302_02.0419.C18.o1.gs	Method	GENSCAN
Start	657	End	1560
GI	none	Score	.75
Exons	657..841, 927..1061, 1380..1560		

Seq. No.	55121	Seq. ID	OJ000302_02.0419.C18
Gene No.	115494	Strand	-
Start	1	End	4883
Name	OJ000302_02.0419.C18.o1.gp	Method	AAT/GAP
Start	1480	End	3930
GI	none	Score	270
Exons	1480..1554, 3847..3930		

Seq. No.	55121	Seq. ID	OJ000302_02.0419.C18
Gene No.	115495	Strand	-
Start	5016	End	5286
Name	OJ000302_02.0419.C18.o2.gp	Method	AAT/GAP
Start	5016	End	5286
GI	23880_2:R1084	Score	184
Exons	5016..5090, 5185..5286		
GI Descrip.	'4176420/dbj|BAA37167| 2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	55121	Seq. ID	OJ000302_02.0419.C18
Gene No.	115496	Strand	-
Start	6194	End	7263
Name	OJ000302_02.0419.C18.o1.tm	Method	TBLASTX:Maize
Start	2	End	4881
GI	none	Score	149
Exons	2..100, 3..104, 3..101, 639..818, 656..847, 657..827, 802..864, 1376..1543, 1376..1543, 1378..1557, 1378..1563, 3848..3928,		

3851..3928, 4311..4514, 4316..4486, 4318..4491, 4583..4633, 4584..4859, 4584..4853, 4585..4881, 4585..4854

Seq. No.	55121	Seq. ID	OJ000302_02.0419.C18
Gene No.	115496	Strand	-
Start	6194	End	7263
Name	OJ000302_02.0419.C18.o1.tw	Method	TBLASTX:Wheat
Start	46	End	1557
GI	none	Score	81
Exons	46..105, 46..123, 638..856, 639..818, 802..861, 1376..1534, 1378..1557, 1379..1555		

Seq. No.	55121	Seq. ID	OJ000302_02.0419.C18
Gene No.	115496	Strand	-
Start	6194	End	7263
Name	OJ000302_02.0419.C18.o1.ts	Method	TBLASTX:Soybean
Start	1447	End	4683
GI	none	Score	90
Exons	1447..1560, 1448..1543, 4317..4484, 4327..4491, 4584..4682, 4585..4683		

Seq. No.	55121	Seq. ID	OJ000302_02.0419.C18
Gene No.	115496	Strand	-
Start	6194	End	7263
Name	OJ000302_02.0419.C18.o1.tc	Method	TBLASTX:Cress
Start	4384	End	4716
GI	none	Score	76
Exons	4384..4485, 4388..4486, 4389..4514, 4392..4490, 4399..4491, 4584..4679, 4587..4679, 4588..4680, 4588..4716		

Seq. No.	55121	Seq. ID	OJ000302_02.0419.C18
Gene No.	115496	Strand	-
Start	6194	End	7263
Name	OJ000302_02.0419.C18.o2.tw	Method	TBLASTX:Wheat
Start	4638	End	4866
GI	none	Score	165
Exons	4638..4865, 4639..4866		

Seq. No.	55121	Seq. ID	OJ000302_02.0419.C18
Gene No.	115496	Strand	-
Start	6194	End	7263
Name	OJ000302_02.0419.C18.o3.gs	Method	GENSCAN
Start	6194	End	7263
GI	none	Score	.58
Exons	6194..6389, 7205..7263		

Seq. No.	55121	Seq. ID	OJ000302_02.0419.C18
Gene No.	115497	Strand	
Start	12945	End	13481
Name	OJ000302_02.0419.C18.o3.tm	Method	TBLASTX:Maize
Start	12945	End	13481
GI	none	Score	127
Exons	12945..13112, 13137..13331, 13383..13436, 13437..13481		

Seq. No.	55121	Seq. ID	OJ000302_02.0419.C18
Gene No.	115498	Strand	
Start	13505	End	13861

Name	OJ000302_02.0419.C18.o2.tm	Method	TBLASTX:Maize
Start	13505	End	13861
GI	none	Score	264
Exons	13505..13690, 13510..13704, 13519..13692, 13526..13693, 13769..13861, 13769..13861		

Seq. No.	55121	Seq. ID	OJ000302_02.0419.C18
Gene No.	115498	Strand	
Start	13505	End	13861
Name	OJ000302_02.0419.C18.o2.tc	Method	TBLASTX:Cress
Start	13518	End	13692
GI	none	Score	188
Exons	13518..13688, 13519..13692		

Seq. No.	55122	Seq. ID	OJ000302_02.0419.C19
Gene No.	115499	Strand	+
Start	541	End	3147
Name	OJ000302_02.0419.C19.o1.gs	Method	GENSCAN
Start	541	End	3147
GI	none	Score	.41
Exons	541..545, 1309..1377, 1851..2135, 3039..3147		

Seq. No.	55123	Seq. ID	OJ000302_02.0419.C20
Gene No.	115500	Strand	+
Start	48	End	790
Name	OJ000302_02.0419.C20.o1.gs	Method	GENSCAN
Start	48	End	790
GI	none	Score	.85
Exons	48..53, 587..790		

Seq. No.	55123	Seq. ID	OJ000302_02.0419.C20
Gene No.	115501	Strand	+
Start	1326	End	3504
Name	OJ000302_02.0419.C20.o2.gs	Method	GENSCAN
Start	1326	End	3504
GI	none	Score	.64
Exons	1326..1347, 2849..3027, 3373..3504		

Seq. No.	55123	Seq. ID	OJ000302_02.0419.C20
Gene No.	115502	Strand	+
Start	6623	End	10173
Name	OJ000302_02.0419.C20.o2.np	Method	AAT/NAP
Start	6623	End	10173
GI	3668088	Score	1123
Exons	6623..6672, 8791..9809, 9894..10173		
GI Descrip.	(AC004667) similar to mammalian MHC III region protein G9a [Arabidopsis thaliana]		

Seq. No.	55123	Seq. ID	OJ000302_02.0419.C20
Gene No.	115503	Strand	+
Start	15654	End	19087
Name	OJ000302_02.0419.C20.o1.gp	Method	AAT/GAP
Start	15654	End	18709
GI	23995_1.R1084	Score	2347
Exons	15654..15798, 16987..17969, 18593..18709		
GI Descrip.	'4415936/gb|AAD20166| 9.0e-09 (AC006418) unknown protein [Arabidopsis thaliana]'		

Seq. No.	55123	Seq. ID	OJ000302_02.0419.C20
Gene No.	115503	Strand	+
Start	15654	End	19087
Name	OJ000302_02.0419.C20.o3.np	Method	AAT/NAP
Start	17014	End	19087
GI	4415936	Score	420
Exons	17014..17415, 17560..17809, 18565..19087		
GI Descrip.	(AC006418) unknown protein [Arabidopsis thaliana]		

Seq. No.	55123	Seq. ID	OJ000302_02.0419.C20
Gene No.	115504	Strand	+
Start	22680	End	25172
Name	OJ000302_02.0419.C20.o6.np	Method	AAT/NAP
Start	22680	End	25172
GI	5042463	Score	118
Exons	22680..22843, 23933..24210, 24874..25008, 25060..25172		
GI Descrip.	(AC007789) unknown protein [Oryza sativa]		

Seq. No.	55123	Seq. ID	OJ000302_02.0419.C20
Gene No.	115505	Strand	+
Start	25216	End	25974
Name	OJ000302_02.0419.C20.o7.np	Method	AAT/NAP
Start	25216	End	25974
GI	7248393	Score	484
Exons	25216..25525, 25616..25974		
GI Descrip.	(AP001389) hypothetical protein [Oryza sativa]		

Seq. No.	55123	Seq. ID	OJ000302_02.0419.C20
Gene No.	115506	Strand	-
Start	854	End	3232
Name	OJ000302_02.0419.C20.o1.np	Method	AAT/NAP
Start	854	End	3232
GI	6016874	Score	112
Exons	854..1071, 3210..3232		
GI Descrip.	(AP000570) ESTs C19143(E10020),D25076(R3116) correspond to a region of the predicted gene.; Similar to putative AC9 transposase. (P03010) [Oryza sativa]		

Seq. No.	55123	Seq. ID	OJ000302_02.0419.C20
Gene No.	115507	Strand	-
Start	18866	End	19676
Name	OJ000302_02.0419.C20.o2.gp	Method	AAT/GAP
Start	18866	End	19676
GI	none	Score	1581
Exons	18866..19676		

Seq. No.	55123	Seq. ID	OJ000302_02.0419.C20
Gene No.	115508	Strand	-
Start	20603	End	23141
Name	OJ000302_02.0419.C20.o4.tm	Method	TBLASTX:Maize
Start	8821	End	9258
GI	none	Score	74
Exons	8821..8889, 8914..9108, 9160..9213, 9214..9258		

Seq. No.	55123	Seq. ID	OJ000302_02.0419.C20
Gene No.	115508	Strand	-

Start	20603	End	23141
Name	OJ000302_02.0419.C20.o1.tw	Method	TBLASTX:Wheat
Start	9160	End	9585
GI	none	Score	45
Exons	9160..9204, 9205..9267, 9295..9585		

Seq. No.	55123	Seq. ID	OJ000302_02.0419.C20
Gene No.	115508	Strand	-
Start	20603	End	23141
Name	OJ000302_02.0419.C20.o2.ts	Method	TBLASTX:Soybean
Start	9382	End	9753
GI	none	Score	70
Exons	9382..9504, 9449..9526, 9462..9737, 9502..9753, 9574..9753		

Seq. No.	55123	Seq. ID	OJ000302_02.0419.C20
Gene No.	115508	Strand	-
Start	20603	End	23141
Name	OJ000302_02.0419.C20.o1.tm	Method	TBLASTX:Maize
Start	9516	End	10101
GI	none	Score	154
Exons	9516..9731, 9516..9596, 9517..9855, 9520..9699, 9639..9848, 9906..10094, 9906..10100, 9907..10101		

Seq. No.	55123	Seq. ID	OJ000302_02.0419.C20
Gene No.	115508	Strand	-
Start	20603	End	23141
Name	OJ000302_02.0419.C20.o1.ts	Method	TBLASTX:Soybean
Start	9886	End	10179
GI	none	Score	389
Exons	9886..10179, 9892..10173, 9899..10174		

Seq. No.	55123	Seq. ID	OJ000302_02.0419.C20
Gene No.	115508	Strand	-
Start	20603	End	23141
Name	OJ000302_02.0419.C20.o3.tm	Method	TBLASTX:Maize
Start	17199	End	17514
GI	none	Score	129
Exons	17199..17513, 17203..17514, 17205..17513		

Seq. No.	55123	Seq. ID	OJ000302_02.0419.C20
Gene No.	115508	Strand	-
Start	20603	End	23141
Name	OJ000302_02.0419.C20.o2.tm	Method	TBLASTX:Maize
Start	17545	End	19077
GI	none	Score	222
Exons	17545..17817, 17556..17780, 17584..17805, 17609..17857, 17871..17948, 17878..17934, 17931..17957, 18593..18886, 18594..18887, 18879..18995, 18885..19013, 18892..19077, 18961..19065		

Seq. No.	55123	Seq. ID	OJ000302_02.0419.C20
Gene No.	115508	Strand	-
Start	20603	End	23141
Name	OJ000302_02.0419.C20.o3.ts	Method	TBLASTX:Soybean
Start	17653	End	18834
GI	none	Score	120
Exons	17653..17757, 18633..18833, 18667..18834, 18669..18830,		

18692..18832

Seq. No.	55123	Seq. ID	OJ000302_02.0419.C20
Gene No.	115508	Strand	-
Start	20603	End	23141
Name	OJ000302_02.0419.C20.o5.np	Method	AAT/NAP
Start	20603	End	23141
GI	4539658	Score	61
Exons	20603..20630, 20923..21036, 23097..23141		
GI Descrip.	(AF061282) serine carboxypeptidase-like protein [Sorghum bicolor]		

Seq. No.	55124	Seq. ID	OJ000302_02.0419.C21
Gene No.	115509	Strand	+
Start	215	End	1231
Name	OJ000302_02.0419.C21.o1.np	Method	AAT/NAP
Start	215	End	1231
GI	7248394	Score	654
Exons	215..1231		
GI Descrip.	(AP001389) ESTs C97394(C60113),AU075824(R0165),D38985(R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15O11 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)		

Seq. No.	55124	Seq. ID	OJ000302_02.0419.C21
Gene No.	115509	Strand	+
Start	215	End	1231
Name	OJ000302_02.0419.C21.o1.gs	Method	GENSCAN
Start	227	End	724
GI	none	Score	.82
Exons	227..724		

Seq. No.	55125	Seq. ID	OJ000302_02.0419.C22
Gene No.	115510	Strand	+
Start	1	End	3931
Name	OJ000302_02.0419.C22.o1.np	Method	AAT/NAP
Start	1	End	2013
GI	7248394	Score	542
Exons	1..618, 1992..2013		
GI Descrip.	(AP001389) ESTs C97394(C60113),AU075824(R0165),D38985(R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15O11 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)		

Seq. No.	55125	Seq. ID	OJ000302_02.0419.C22
Gene No.	115510	Strand	+
Start	1	End	3931
Name	OJ000302_02.0419.C22.o1.gs	Method	GENSCAN
Start	51	End	1103
GI	none	Score	.79
Exons	51..267, 505..1103		

Seq. No.	55125	Seq. ID	OJ000302_02.0419.C22
Gene No.	115510	Strand	+
Start	1	End	3931

Name	OJ000302_02.0419.C22.o2.gs	Method	GENSCAN
Start	1704	End	3931
GI	none	Score	.77
Exons	1704..2057, 3557..3931		

Seq. No.	55125	Seq. ID	OJ000302_02.0419.C22
Gene No.	115511	Strand	-
Start	4242	End	4577
Name	OJ000302_02.0419.C22.o1.ts	Method	TBLASTX:Soybean
Start	470	End	884
GI	none	Score	148
Exons	470..604, 471..608, 629..712, 630..713, 732..884		

Seq. No.	55125	Seq. ID	OJ000302_02.0419.C22
Gene No.	115511	Strand	-
Start	4242	End	4577
Name	OJ000302_02.0419.C22.o1.tm	Method	TBLASTX:Maize
Start	1334	End	1715
GI	none	Score	64
Exons	1334..1465, 1491..1715		

Seq. No.	55125	Seq. ID	OJ000302_02.0419.C22
Gene No.	115511	Strand	-
Start	4242	End	4577
Name	OJ000302_02.0419.C22.o3.ts	Method	TBLASTX:Soybean
Start	1337	End	1646
GI	none	Score	78
Exons	1337..1465, 1451..1558, 1464..1646		

Seq. No.	55125	Seq. ID	OJ000302_02.0419.C22
Gene No.	115511	Strand	-
Start	4242	End	4577
Name	OJ000302_02.0419.C22.o1.tw	Method	TBLASTX:Wheat
Start	1493	End	1907
GI	none	Score	207
Exons	1493..1576, 1494..1907		

Seq. No.	55125	Seq. ID	OJ000302_02.0419.C22
Gene No.	115511	Strand	-
Start	4242	End	4577
Name	OJ000302_02.0419.C22.o2.ts	Method	TBLASTX:Soybean
Start	3578	End	3828
GI	none	Score	238
Exons	3578..3823, 3578..3712, 3580..3750, 3787..3828		

Seq. No.	55125	Seq. ID	OJ000302_02.0419.C22
Gene No.	115511	Strand	-
Start	4242	End	4577
Name	OJ000302_02.0419.C22.o3.gs	Method	GENSCAN
Start	4242	End	4577
GI	none	Score	.6
Exons	4242..4577		

Seq. No.	55126	Seq. ID	OJ000302_02.0419.C23
Gene No.	115512	Strand	+
Start	1971	End	6043
Name	OJ000302_02.0419.C23.o1.np	Method	AAT/NAP

Start	1971	End	6043
GI	5042463	Score	95
Exons	1971..2311, 3039..3142, 5932..6043		
GI Descrip.	(AC007789) unknown protein [Oryza sativa]		

Seq. No.	55127	Seq. ID	OJ000222_05.0419.C1
Gene No.	115513	Strand	+
Start	830	End	5236
Name	OJ000222_05.0419.C1.o2.np	Method	AAT/NAP
Start	830	End	5236
GI	6815052	Score	1776
Exons	830..983, 1065..1135, 1417..1538, 1839..1938, 2873..2965, 3770..3908, 3957..4691, 4773..4846, 5117..5236		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	55127	Seq. ID	OJ000222_05.0419.C1
Gene No.	115514	Strand	+
Start	5883	End	6257
Name	OJ000222_05.0419.C1.o1.tm	Method	TBLASTX:Maize
Start	467	End	670
GI	none	Score	210
Exons	467..670, 468..647		

Seq. No.	55127	Seq. ID	OJ000222_05.0419.C1
Gene No.	115514	Strand	+
Start	5883	End	6257
Name	OJ000222_05.0419.C1.o2.ts	Method	TBLASTX:Soybean
Start	494	End	641
GI	none	Score	183
Exons	494..640, 495..641		

Seq. No.	55127	Seq. ID	OJ000222_05.0419.C1
Gene No.	115514	Strand	+
Start	5883	End	6257
Name	OJ000222_05.0419.C1.o1.tw	Method	TBLASTX:Wheat
Start	3176	End	3628
GI	none	Score	98
Exons	3176..3358, 3209..3367, 3374..3628, 3451..3621		

Seq. No.	55127	Seq. ID	OJ000222_05.0419.C1
Gene No.	115514	Strand	+
Start	5883	End	6257
Name	OJ000222_05.0419.C1.o1.ts	Method	TBLASTX:Soybean
Start	3188	End	3568
GI	none	Score	115
Exons	3188..3379, 3377..3568		

Seq. No.	55127	Seq. ID	OJ000222_05.0419.C1
Gene No.	115514	Strand	+
Start	5883	End	6257
Name	OJ000222_05.0419.C1.o3.np	Method	AAT/NAP
Start	5883	End	6257
GI	7242910	Score	71
Exons	5883..6079, 6171..6257		
GI Descrip.	(AP001383) hypothetical protein [Oryza sativa]		

Seq. No.	55128	Seq. ID	OJ000222_05.0419.C5

Gene No.	115515	Strand	+
Start	255	End	6422
Name	OJ000222_05.0419.C5.o1.gs	Method	GENSCAN
Start	255	End	6422
GI	none	Score	.55
Exons	255..436, 1921..2082, 4260..4363, 5085..5353, 5506..5627, 6136..6422		

Seq. No.	55128	Seq. ID	OJ000222_05.0419.C5
Gene No.	115516	Strand	+
Start	8897	End	9263
Name	OJ000222_05.0419.C5.o2.gs	Method	GENSCAN
Start	8897	End	9263
GI	none	Score	.83
Exons	8897..9186, 9209..9263		

Seq. No.	55128	Seq. ID	OJ000222_05.0419.C5
Gene No.	115517	Strand	-
Start	3602	End	5615
Name	OJ000222_05.0419.C5.o1.np	Method	AAT/NAP
Start	3602	End	5615
GI	5852179	Score	238
Exons	3602..3757, 4060..4174, 5046..5305, 5379..5615		
GI Descrip.	(AL117265) zhb0009.1 [Oryza sativa]		

Seq. No.	55129	Seq. ID	OJ000302_09.0414.C2
Gene No.	115518	Strand	+
Start	345	End	668
Name	OJ000302_09.0414.C2.o1.gs	Method	GENSCAN
Start	345	End	668
GI	none	Score	.74
Exons	345..668		

Seq. No.	55129	Seq. ID	OJ000302_09.0414.C2
Gene No.	115519	Strand	-
Start	1308	End	2482
Name	OJ000302_09.0414.C2.o2.gs	Method	GENSCAN
Start	1308	End	2482
GI	none	Score	.54
Exons	1308..1318, 2209..2482		

Seq. No.	55130	Seq. ID	OJ000302_09.0414.C3
Gene No.	115520	Strand	+
Start	238	End	7614
Name	OJ000302_09.0414.C3.o1.gs	Method	GENSCAN
Start	238	End	7614
GI	none	Score	.55
Exons	238..261, 740..895, 1069..1235, 1459..1684, 2718..3104, 3878..3990, 4792..5007, 5092..5330, 5634..5742, 6770..6983, 7027..7257, 7390..7614		

Seq. No.	55130	Seq. ID	OJ000302_09.0414.C3
Gene No.	115521	Strand	+
Start	8840	End	34913
Name	OJ000302_09.0414.C3.o1.np	Method	AAT/NAP
Start	8651	End	34913
GI	4836907	Score	2474

Exons	8651..8768, 8969..9046, 10297..10390, 10872..11081, 12412..12528, 12625..12750, 14305..14394, 14645..14725, 14812..14952, 16289..16414, 16503..16579, 16666..16777, 17269..17412, 18452..18611, 18655..18783, 18850..19099, 19370..19411, 20175..20261, 20642..20752, 21723..21844, 21933..22021, 22136..22286, 22401..22485, 23542..23736, 24060..24220, 25026..25135, 25373..25507, 25796..25864, 25939..26136, 26310..26416, 26771..26923, 27368..27483, 27575..27658, 27743..27801, 28406..28458, 29321..29497, 30867..30914, 31507..31665, 32063..32176, 32262..32350, 32426..32584, 32671..32773, 33312..33435, 33783..34015, 34669..34913
GI Descrip.	(AC007153) Highly similar to putative callose synthase catalytic subunit [Arabidopsis thaliana]

Seq. No.	55130	Seq. ID	OJ000302_09.0414.C3
Gene No.	115521	Strand	+
Start	8840	End	34913
Name	OJ000302_09.0414.C3.o2.gs	Method	GENSCAN
Start	8840	End	22500
GI	none	Score	.73
Exons	8840..9038, 10125..10177, 10862..11025, 11181..11304, 12625..12750, 14170..14394, 16289..16414, 17240..17371, 17866..17968, 18080..18203, 18447..18624, 18974..19091, 19362..19411, 20642..20727, 20802..20826, 21750..21844, 21933..22014, 22129..22289, 22401..22500		

Seq. No.	55130	Seq. ID	OJ000302_09.0414.C3
Gene No.	115521	Strand	+
Start	8840	End	34913
Name	OJ000302_09.0414.C3.o2.gp	Method	AAT/GAP
Start	9273	End	9464
GI	533_1.R1084	Score	191
Exons	9273..9388, 9411..9464		
GI Descrip.	'113172/sp|P15543|ACP3_HORVU 9.0e-52 ACYL CARRIER PROTEIN III PRECURSOR (ACP III) >gi_100561_pir__S17928 acyl carrier protein 3 - barley >gi_166971 (M58754) acyl carrier protein III [Hordeum vulgare]'		

Seq. No.	55130	Seq. ID	OJ000302_09.0414.C3
Gene No.	115521	Strand	+
Start	8840	End	34913
Name	OJ000302_09.0414.C3.o3.gp	Method	AAT/GAP
Start	13060	End	13217
GI	5455363	Score	110
Exons	13060..13126, 13190..13217		
GI Descrip.	3176667 1.0e-17 (AC004393) Similar to hypothetical 41.9KD protein gb_1001369 from sequence of Synechocystis sp. gb_D64006. [Arabidopsis thaliana]		

Seq. No.	55130	Seq. ID	OJ000302_09.0414.C3
Gene No.	115521	Strand	+
Start	8840	End	34913
Name	OJ000302_09.0414.C3.o3.gs	Method	GENSCAN
Start	22631	End	34905
GI	none	Score	.76
Exons	22631..22642, 23650..23747, 23858..23948, 24060..24220,		

25026..25135, 25373..25507, 25796..25864, 25948..26128,
26302..26416, 27368..27483, 27575..27658, 27743..27855,
29370..29497, 30867..30914, 31507..31665, 32063..32176,
32262..32350, 32426..32584, 32671..32773, 33312..33431,
33833..34015, 34669..34905

Seq. No.	55130	Seq. ID	OJ000302_09.0414.C3
Gene No.	115521	Strand	+
Start	8840	End	34913
Name	OJ000302_09.0414.C3.o2:np	Method	AAT/NAP
Start	22800	End	34902
GI	4883602	Score	2224
Exons	22800..22907, 24068..24220, 25026..25135, 25373..25507, 25796..25864, 25963..26128, 26302..26416, 26804..26923, 27368..27483, 27743..27861, 28406..28448, 29335..29497, 31507..31665, 32063..32196, 32665..32773, 33312..33435, 33846..34015, 34669..34902		
GI Descrip.	(AC006922) putative glucan synthase [Arabidopsis thaliana]		

Seq. No.	55130	Seq. ID	OJ000302_09.0414.C3
Gene No.	115521	Strand	+
Start	8840	End	34913
Name	OJ000302_09.0414.C3.o4.gp	Method	AAT/GAP
Start	23668	End	25141
GI	53784_1.R1084	Score	792
Exons	23668..23747, 23858..23948, 24060..24220, 25026..25141		
GI Descrip.	'4588012/gb|AAD25952.1|AF085717_1 4.0e-43 (AF085717) putative callose synthase catalytic subunit [Gossypium hirsutum]'		

Seq. No.	55130	Seq. ID	OJ000302_09.0414.C3
Gene No.	115521	Strand	+
Start	8840	End	34913
Name	OJ000302_09.0414.C3.o5.gp	Method	AAT/GAP
Start	30883	End	32306
GI	4878427	Score	596
Exons	30883..30914, 31507..31665, 32063..32176, 32262..32306		
GI Descrip.	4588012/gb|AAD25952.1|AF085717_1 3.0e-43 (AF085717) putative callose synthase catalytic subunit [Gossypium hirsutum]		

Seq. No.	55130	Seq. ID	OJ000302_09.0414.C3
Gene No.	115521	Strand	+
Start	8840	End	34913
Name	OJ000302_09.0414.C3.o6.gp	Method	AAT/GAP
Start	32674	End	34770
GI	2799887	Score	875
Exons	32674..32773, 33312..33431, 33692..33742, 33833..34015, 34669..34770		
GI Descrip.	4588012/gb|AAD25952.1|AF085717_1 4.0e-43 (AF085717) putative callose synthase catalytic subunit [Gossypium hirsutum]		

Seq. No.	55130	Seq. ID	OJ000302_09.0414.C3
Gene No.	115522	Strand	-
Start	684	End	739
Name	OJ000302_09.0414.C3.o1.gp	Method	AAT/GAP
Start	684	End	739
GI	77434_1.R1084	Score	84
Exons	684..739		

GI Descrip. '2827528/emb|CAA16536.1| 2.0e-10 (AL021633) predicted protein [Arabidopsis thaliana]'

Seq. No.	55130	Seq. ID	OJ000302_09.0414.C3
Gene No.	115523	Strand	
Start	18466	End	18933
Name	OJ000302_09.0414.C3.o5.tm	Method	TBLASTX:Maize
Start	18466	End	18933
GI	none	Score	235
Exons	18466..18624, 18466..18624, 18479..18640, 18591..18638, 18728..18784, 18730..18786, 18730..18786, 18870..18929, 18871..18933		

Seq. No.	55130	Seq. ID	OJ000302_09.0414.C3
Gene No.	115524	Strand	
Start	21756	End	22017
Name	OJ000302_09.0414.C3.o2.ts	Method	TBLASTX:Soybean
Start	21756	End	22017
GI	none	Score	127
Exons	21756..21842, 21762..21860, 21934..22017, 21960..22013		

Seq. No.	55130	Seq. ID	OJ000302_09.0414.C3
Gene No.	115525	Strand	
Start	23655	End	25089
Name	OJ000302_09.0414.C3.o4.tm	Method	TBLASTX:Maize
Start	23655	End	25089
GI	none	Score	126
Exons	23655..23708, 23656..23745, 23659..23745, 23660..23746, 23796..23948, 23817..23966, 23855..23974, 24056..24208, 24058..24219, 24059..24220, 24060..24218, 25024..25089		

Seq. No.	55130	Seq. ID	OJ000302_09.0414.C3
Gene No.	115526	Strand	
Start	25362	End	34946
Name	OJ000302_09.0414.C3.o3.ts	Method	TBLASTX:Soybean
Start	25362	End	25851
GI	none	Score	197
Exons	25362..25511, 25372..25506, 25792..25848, 25793..25849, 25795..25851		

Seq. No.	55130	Seq. ID	OJ000302_09.0414.C3
Gene No.	115526	Strand	
Start	25362	End	34946
Name	OJ000302_09.0414.C3.o6.tm	Method	TBLASTX:Maize
Start	25428	End	26934
GI	none	Score	117
Exons	25428..25511, 25429..25506, 25795..25878, 25795..25863, 25799..25864, 25979..26131, 25980..26141, 26288..26416, 26296..26418, 26303..26416, 26353..26421, 26797..26925, 26801..26923, 26802..26924, 26802..26933, 26803..26934		

Seq. No.	55130	Seq. ID	OJ000302_09.0414.C3
Gene No.	115526	Strand	
Start	25362	End	34946
Name	OJ000302_09.0414.C3.o1.ts	Method	TBLASTX:Soybean
Start	26797	End	34926
GI	none	Score	200

Exons	26797..26925, 26801..26923, 26801..26971, 26803..26925, 27365..27481, 27365..27475, 27367..27489, 27367..27483, 27557..27658, 27573..27713, 27722..27856, 27741..27872, 27747..27851, 28405..28461, 29306..29497, 29319..29495, 29319..29501, 29320..29502, 29321..29500, 30867..30938, 31506..31661, 31507..31662, 31557..31667, 32060..32176, 32062..32172, 32259..32360, 32261..32356, 32407..32583, 32424..32579, 32426..32584, 32427..32585, 32669..32773, 32670..32774, 32675..32791, 32679..32795, 33312..33434, 33323..33391, 33820..34014, 33830..34021, 34660..34926, 34668..34916		

Seq. No.	55130	Seq. ID	OJ000302_09.0414.C3
Gene No.	115526	Strand	
Start	25362	End	34946
Name	OJ000302_09.0414.C3.o4.tc	Method	TBLASTX:Cress
Start	26840	End	27851
GI	none	Score	125
Exons	26840..26923, 26842..26925, 27365..27481, 27365..27481, 27367..27483, 27597..27659, 27599..27658, 27726..27851, 27742..27825		

Seq. No.	55130	Seq. ID	OJ000302_09.0414.C3
Gene No.	115526	Strand	
Start	25362	End	34946
Name	OJ000302_09.0414.C3.o3.tm	Method	TBLASTX:Maize
Start	27368	End	29482
GI	none	Score	147
Exons	27368..27481, 27368..27481, 27373..27483, 27542..27655, 27564..27656, 27573..27659, 27575..27664, 27741..27872, 27753..27857, 27754..27906, 28405..28461, 29320..29481, 29321..29482		

Seq. No.	55130	Seq. ID	OJ000302_09.0414.C3
Gene No.	115526	Strand	
Start	25362	End	34946
Name	OJ000302_09.0414.C3.o5.tc	Method	TBLASTX:Cress
Start	28405	End	31088
GI	none	Score	92
Exons	28405..28461, 29293..29502, 29327..29500, 29327..29521, 30867..30938, 31047..31088		

Seq. No.	55130	Seq. ID	OJ000302_09.0414.C3
Gene No.	115526	Strand	
Start	25362	End	34946
Name	OJ000302_09.0414.C3.o3.tw	Method	TBLASTX:Wheat
Start	29363	End	31671
GI	none	Score	214
Exons	29363..29500, 29377..29502, 29383..29502, 30848..30916, 30865..30915, 31506..31667, 31506..31664, 31507..31671		

Seq. No.	55130	Seq. ID	OJ000302_09.0414.C3
Gene No.	115526	Strand	
Start	25362	End	34946
Name	OJ000302_09.0414.C3.o1.tm	Method	TBLASTX:Maize
Start	31530	End	33735
GI	none	Score	179

Exons	31530..31667, 31530..31664, 31531..31674, 31532..31666, 32049..32174, 32053..32175, 32053..32175, 32054..32176, 32063..32176, 32254..32352, 32258..32350, 32259..32360, 32424..32579, 32427..32585, 32429..32584, 32662..32772, 32669..32773, 32672..32773, 33314..33439, 33315..33434, 33685..33735		
Seq. No.	55130	Seq. ID	OJ000302_09.0414.C3
Gene No.	115526	Strand	
Start	25362	End	34946
Name	OJ000302_09.0414.C3.o3.tc	Method	TBLASTX:Cress
Start	31558	End	32368
GI	none	Score	141
Exons	31558..31662, 31560..31667, 31560..31655, 32060..32176, 32071..32175, 32232..32354, 32258..32368, 32259..32363		
Seq. No.	55130	Seq. ID	OJ000302_09.0414.C3
Gene No.	115526	Strand	
Start	25362	End	34946
Name	OJ000302_09.0414.C3.o1.tw	Method	TBLASTX:Wheat
Start	32062	End	32351
GI	none	Score	148
Exons	32062..32172, 32063..32176, 32259..32351, 32261..32350		
Seq. No.	55130	Seq. ID	OJ000302_09.0414.C3
Gene No.	115526	Strand	
Start	25362	End	34946
Name	OJ000302_09.0414.C3.o2.tc	Method	TBLASTX:Cress
Start	32432	End	32775
GI	none	Score	216
Exons	32432..32584, 32433..32585, 32669..32770, 32674..32736, 32680..32775		
Seq. No.	55130	Seq. ID	OJ000302_09.0414.C3
Gene No.	115526	Strand	
Start	25362	End	34946
Name	OJ000302_09.0414.C3.o2.tw	Method	TBLASTX:Wheat
Start	33866	End	34893
GI	none	Score	104
Exons	33866..34021, 34660..34884, 34668..34886, 34783..34893		
Seq. No.	55130	Seq. ID	OJ000302_09.0414.C3
Gene No.	115526	Strand	
Start	25362	End	34946
Name	OJ000302_09.0414.C3.o2.tm	Method	TBLASTX:Maize
Start	33880	End	34946
GI	none	Score	146
Exons	33880..34014, 33881..34018, 33888..34016, 34659..34898, 34660..34905, 34667..34918, 34677..34946		
Seq. No.	55130	Seq. ID	OJ000302_09.0414.C3
Gene No.	115526	Strand	
Start	25362	End	34946
Name	OJ000302_09.0414.C3.o1.tc	Method	TBLASTX:Cress
Start	33950	End	34905
GI	none	Score	100
Exons	33950..34021, 34660..34905, 34668..34898, 34711..34899		

Seq. No.	55131	Seq. ID	OJ000302_09.0414.C4
Gene No.	115527	Strand	+
Start	39	End	425
Name	OJ000302_09.0414.C4.o1.gs	Method	GENSCAN
Start	39	End	425
GI	none	Score	.81
Exons	39..425		

Seq. No.	55131	Seq. ID	OJ000302_09.0414.C4
Gene No.	115528	Strand	+
Start	3810	End	4268
Name	OJ000302_09.0414.C4.o1.gp	Method	AAT/GAP
Start	3750	End	4268
GI	666_7.R1084	Score	1003
Exons	3750..4268		
GI Descrip.	'122106/sp|P02308|H4_WHEAT 5.0e-42 HISTONE H4 >gi_70771_pir__HSZM4 histone H4 - maize >gi_81642_pir__S06904 histone H4 - Arabidopsis thaliana >gi_2119028_pir__S60475 histone H4 - garden pea >gi_21795_emb_CAA24924_ (X00043) histone H4 [Triticum aestivum] >gi_166740 (M17132) histone H4 [Arabidopsis thaliana] >gi_166742 (M17133) histone H4 [Arabidopsis thaliana] >gi_168499 (M36659) histon'		

Seq. No.	55131	Seq. ID	OJ000302_09.0414.C4
Gene No.	115528	Strand	+
Start	3810	End	4268
Name	OJ000302_09.0414.C4.o2.np	Method	AAT/NAP
Start	3765	End	4118
GI	7504327	Score	519
Exons	3765..4118		
GI Descrip.	hypothetical protein F55G1.11 - Caenorhabditis elegans gi|1326372|gb|AAB00649.1| (U58750) Similar to Histone [Caenorhabditis elegans]		

Seq. No.	55131	Seq. ID	OJ000302_09.0414.C4
Gene No.	115528	Strand	+
Start	3810	End	4268
Name	OJ000302_09.0414.C4.o3.gs	Method	GENSCAN
Start	3810	End	4121
GI	none	Score	1
Exons	3810..4121		

Seq. No.	55131	Seq. ID	OJ000302_09.0414.C4
Gene No.	115529	Strand	+
Start	5049	End	25401
Name	OJ000302_09.0414.C4.o4.gs	Method	GENSCAN
Start	5049	End	16350
GI	none	Score	.57
Exons	5049..5155, 5821..5846, 8135..8243, 8737..8786, 9242..9283, 10707..10748, 11396..11510, 12427..12550, 13441..13486, 14040..14317, 14503..14859, 14963..15376, 15478..15559, 15725..16350		

Seq. No.	55131	Seq. ID	OJ000302_09.0414.C4
Gene No.	115529	Strand	+
Start	5049	End	25401

Name	OJ000302_09.0414.C4.o3.np	Method	AAT/NAP
Start	12395	End	21608
GI	6227016	Score	744
Exons	12395..12550, 14040..14317, 14503..14859, 14963..15362, 15613..16076, 21532..21608		
GI Descrip.	(AC009513) Contains similarity to gb|AF123310 NAC domain protein NAM gene from Arabidopsis thaliana		

Seq. No.	55131	Seq. ID	OJ000302_09.0414.C4
Gene No.	115529	Strand	+
Start	5049	End	25401
Name	OJ000302_09.0414.C4.o4.np	Method	AAT/NAP
Start	16632	End	21963
GI	6069646	Score	996
Exons	16632..16746, 19886..20691, 20974..21963		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	55131	Seq. ID	OJ000302_09.0414.C4
Gene No.	115529	Strand	+
Start	5049	End	25401
Name	OJ000302_09.0414.C4.o5.gs	Method	GENSCAN
Start	17642	End	24975
GI	none	Score	.69
Exons	17642..18371, 18566..18925, 19128..19263, 19275..21737, 22343..22640, 24277..24315, 24418..24522, 24781..24975		

Seq. No.	55131	Seq. ID	OJ000302_09.0414.C4
Gene No.	115529	Strand	+
Start	5049	End	25401
Name	OJ000302_09.0414.C4.o5.np	Method	AAT/NAP
Start	22294	End	25401
GI	6227015	Score	822
Exons	22294..22371, 22509..22640, 22723..22820, 23137..23191, 23373..23585, 23675..23746, 24086..24210, 24418..24522, 24781..24946, 25105..25213, 25318..25401		
GI Descrip.	(AC009513) F12P19.7 [Arabidopsis thaliana]		

Seq. No.	55131	Seq. ID	OJ000302_09.0414.C4
Gene No.	115530	Strand	-
Start	26041	End	30446
Name	OJ000302_09.0414.C4.o2.tm	Method	TBLASTX:Maize
Start	3802	End	4136
GI	none	Score	44
Exons	3802..3879, 3805..3837, 3854..4135, 3873..4136		

Seq. No.	55131	Seq. ID	OJ000302_09.0414.C4
Gene No.	115530	Strand	-
Start	26041	End	30446
Name	OJ000302_09.0414.C4.o1.tc	Method	TBLASTX:Cress
Start	3854	End	4124
GI	none	Score	414
Exons	3854..4117, 3873..4124		

Seq. No.	55131	Seq. ID	OJ000302_09.0414.C4
Gene No.	115530	Strand	-
Start	26041	End	30446
Name	OJ000302_09.0414.C4.o1.tw	Method	TBLASTX:Wheat
Start	3854	End	4139
GI	none	Score	424
Exons	3854..4135, 3873..4139		

Seq. No.	55131	Seq. ID	OJ000302_09.0414.C4
Gene No.	115530	Strand	-
Start	26041	End	30446
Name	OJ000302_09.0414.C4.o1.ts	Method	TBLASTX:Soybean
Start	3854	End	4142
GI	none	Score	423
Exons	3854..4135, 3873..4142		

Seq. No.	55131	Seq. ID	OJ000302_09.0414.C4
Gene No.	115530	Strand	-
Start	26041	End	30446
Name	OJ000302_09.0414.C4.o6.tm	Method	TBLASTX:Maize
Start	12394	End	14275
GI	none	Score	134
Exons	12394..12501, 12395..12502, 12502..12549, 14038..14274, 14038..14268, 14039..14275		

Seq. No.	55131	Seq. ID	OJ000302_09.0414.C4
Gene No.	115530	Strand	-
Start	26041	End	30446
Name	OJ000302_09.0414.C4.o3.tc	Method	TBLASTX:Cress
Start	12395	End	14347
GI	none	Score	125
Exons	12395..12505, 12415..12486, 12484..12546, 12506..12544, 14045..14347, 14062..14268, 14069..14311		

Seq. No.	55131	Seq. ID	OJ000302_09.0414.C4
Gene No.	115530	Strand	-
Start	26041	End	30446
Name	OJ000302_09.0414.C4.o3.ts	Method	TBLASTX:Soybean
Start	12404	End	14592
GI	none	Score	127
Exons	12404..12502, 12415..12501, 12483..12551, 12502..12564, 14042..14326, 14062..14268, 14063..14302, 14479..14592		

Seq. No.	55131	Seq. ID	OJ000302_09.0414.C4
Gene No.	115530	Strand	-
Start	26041	End	30446
Name	OJ000302_09.0414.C4.o3.tw	Method	TBLASTX:Wheat
Start	14060	End	14329
GI	none	Score	284
Exons	14060..14329, 14062..14265, 14063..14293		

Seq. No.	55131	Seq. ID	OJ000302_09.0414.C4
Gene No.	115530	Strand	-
Start	26041	End	30446
Name	OJ000302_09.0414.C4.o10.tm	Method	TBLASTX:Maize
Start	14727	End	14868
GI	none	Score	158

Exons	14727..14861, 14727..14861, 14728..14868, 14734..14865		
Seq. No.	55131	Seq. ID	OJ000302_09.0414.C4
Gene No.	115530	Strand	-
Start	26041	End	30446
Name	OJ000302_09.0414.C4.o13.tm	Method	TBLASTX:Maize
Start	18820	End	19065
GI	none	Score	142
Exons	18820..18957, 18961..19065		
Seq. No.	55131	Seq. ID	OJ000302_09.0414.C4
Gene No.	115530	Strand	-
Start	26041	End	30446
Name	OJ000302_09.0414.C4.o5.tm	Method	TBLASTX:Maize
Start	19276	End	19715
GI	none	Score	341
Exons	19276..19707, 19299..19715		
Seq. No.	55131	Seq. ID	OJ000302_09.0414.C4
Gene No.	115530	Strand	-
Start	26041	End	30446
Name	OJ000302_09.0414.C4.o4.tw	Method	TBLASTX:Wheat
Start	19786	End	20121
GI	none	Score	83
Exons	19786..19938, 19939..20121		
Seq. No.	55131	Seq. ID	OJ000302_09.0414.C4
Gene No.	115530	Strand	-
Start	26041	End	30446
Name	OJ000302_09.0414.C4.o3.tm	Method	TBLASTX:Maize
Start	19867	End	20232
GI	none	Score	374
Exons	19867..20232, 19878..20231		
Seq. No.	55131	Seq. ID	OJ000302_09.0414.C4
Gene No.	115530	Strand	-
Start	26041	End	30446
Name	OJ000302_09.0414.C4.o1.tm	Method	TBLASTX:Maize
Start	20233	End	20915
GI	none	Score	476
Exons	20233..20907, 20271..20375, 20400..20558, 20637..20915		
Seq. No.	55131	Seq. ID	OJ000302_09.0414.C4
Gene No.	115530	Strand	-
Start	26041	End	30446
Name	OJ000302_09.0414.C4.o5.ts	Method	TBLASTX:Soybean
Start	20527	End	21069
GI	none	Score	160
Exons	20527..20877, 20658..20825, 20884..20907, 20937..21044, 20938..21069		
Seq. No.	55131	Seq. ID	OJ000302_09.0414.C4
Gene No.	115530	Strand	-
Start	26041	End	30446
Name	OJ000302_09.0414.C4.o2.tw	Method	TBLASTX:Wheat
Start	20548	End	20988
GI	none	Score	253

Exons	20548..20844, 20550..20840, 20830..20988, 20895..20984		
Seq. No.	55131	Seq. ID	OJ000302_09.0414.C4
Gene No.	115530	Strand	-
Start	26041	End	30446
Name	OJ000302_09.0414.C4.o9.tm	Method	TBLASTX:Maize
Start	20919	End	21144
GI	none	Score	226
Exons	20919..21143, 20920..21144		
Seq. No.	55131	Seq. ID	OJ000302_09.0414.C4
Gene No.	115530	Strand	-
Start	26041	End	30446
Name	OJ000302_09.0414.C4.o5.tw	Method	TBLASTX:Wheat
Start	21148	End	21537
GI	none	Score	78
Exons	21148..21327, 21385..21537		
Seq. No.	55131	Seq. ID	OJ000302_09.0414.C4
Gene No.	115530	Strand	-
Start	26041	End	30446
Name	OJ000302_09.0414.C4.o7.tm	Method	TBLASTX:Maize
Start	21475	End	21756
GI	none	Score	308
Exons	21475..21756, 21481..21693		
Seq. No.	55131	Seq. ID	OJ000302_09.0414.C4
Gene No.	115530	Strand	-
Start	26041	End	30446
Name	OJ000302_09.0414.C4.o6.tw	Method	TBLASTX:Wheat
Start	21544	End	21945
GI	none	Score	97
Exons	21544..21693, 21772..21945		
Seq. No.	55131	Seq. ID	OJ000302_09.0414.C4
Gene No.	115530	Strand	-
Start	26041	End	30446
Name	OJ000302_09.0414.C4.o4.tc	Method	TBLASTX:Cress
Start	22541	End	22827
GI	none	Score	115
Exons	22541..22582, 22551..22640, 22566..22670, 22722..22826, 22723..22827		
Seq. No.	55131	Seq. ID	OJ000302_09.0414.C4
Gene No.	115530	Strand	-
Start	26041	End	30446
Name	OJ000302_09.0414.C4.o8.tm	Method	TBLASTX:Maize
Start	22541	End	23461
GI	none	Score	128
Exons	22541..22582, 22551..22640, 22566..22640, 22656..22823, 22720..22824, 22721..22849, 22723..22824, 23316..23459, 23372..23461, 23372..23458, 23376..23459		
Seq. No.	55131	Seq. ID	OJ000302_09.0414.C4
Gene No.	115530	Strand	-
Start	26041	End	30446
Name	OJ000302_09.0414.C4.o6.ts	Method	TBLASTX:Soybean

Start	22541	End	22809
GI	none	Score	110
Exons	22541..22585, 22551..22640, 22566..22631, 22719..22808, 22723..22809		

Seq. No.	55131	Seq. ID	OJ000302_09.0414.C4
Gene No.	115530	Strand	-
Start	26041	End	30446
Name	OJ000302_09.0414.C4.o11.tm	Method	TBLASTX:Maize
Start	25160	End	25439
GI	none	Score	45
Exons	25160..25186, 25161..25187, 25161..25187, 25171..25224, 25175..25213, 25240..25428, 25240..25425, 25275..25439, 25323..25427		

Seq. No.	55131	Seq. ID	OJ000302_09.0414.C4
Gene No.	115530	Strand	-
Start	26041	End	30446
Name	OJ000302_09.0414.C4.o6.gs	Method	GENSCAN
Start	26041	End	30446
GI	none	Score	.65
Exons	26041..26101, 27105..27338, 27528..27803, 28045..28115, 28261..28368, 29408..29483, 29634..29761, 29905..30016, 30280..30446		

Seq. No.	55131	Seq. ID	OJ000302_09.0414.C4
Gene No.	115530	Strand	-
Start	26041	End	30446
Name	OJ000302_09.0414.C4.o6.np	Method	AAT/NAP
Start	26047	End	28688
GI	4835763	Score	855
Exons	26047..26101, 27105..27397, 27505..27803, 28045..28111, 28257..28427, 28458..28532, 28635..28688		
GI Descrip.	(AC007202) T8K14.13 [Arabidopsis thaliana]		

Seq. No.	55131	Seq. ID	OJ000302_09.0414.C4
Gene No.	115530	Strand	-
Start	26041	End	30446
Name	OJ000302_09.0414.C4.o2.tc	Method	TBLASTX:Cress
Start	26050	End	27724
GI	none	Score	186
Exons	26050..26115, 27104..27127, 27125..27397, 27144..27398, 27521..27718, 27522..27719, 27545..27724		

Seq. No.	55131	Seq. ID	OJ000302_09.0414.C4
Gene No.	115530	Strand	-
Start	26041	End	30446
Name	OJ000302_09.0414.C4.o2.ts	Method	TBLASTX:Soybean
Start	26050	End	27398
GI	none	Score	65
Exons	26050..26103, 26066..26152, 27116..27397, 27129..27398		

Seq. No.	55131	Seq. ID	OJ000302_09.0414.C4
Gene No.	115530	Strand	-
Start	26041	End	30446
Name	OJ000302_09.0414.C4.o4.tm	Method	TBLASTX:Maize
Start	27104	End	27820

GI	none	Score	162
Exons	27104..27127, 27116..27397, 27134..27394, 27144..27398, 27250..27399, 27285..27398, 27521..27820, 27522..27791		

Seq. No.	55131	Seq. ID	OJ000302_09.0414.C4
Gene No.	115530	Strand	-
Start	26041	End	30446
Name	OJ000302_09.0414.C4.o4.ts	Method	TBLASTX:Soybean
Start	27527	End	28085
GI	none	Score	143
Exons	27527..27724, 27528..27713, 27553..27726, 27722..27814, 27722..27805, 28044..28085		

Seq. No.	55131	Seq. ID	OJ000302_09.0414.C4
Gene No.	115530	Strand	-
Start	26041	End	30446
Name	OJ000302_09.0414.C4.o12.tm	Method	TBLASTX:Maize
Start	28041	End	28694
GI	none	Score	63
Exons	28041..28115, 28042..28116, 28044..28115, 28258..28371, 28269..28352, 28297..28368, 28455..28532, 28465..28533, 28630..28692, 28632..28691, 28635..28694		

Seq. No.	55132	Seq. ID	OJ000302_09.0414.C5
Gene No.	115531	Strand	+
Start	4290	End	7722
Name	OJ000302_09.0414.C5.o2.gs	Method	GENSCAN
Start	4290	End	7722
GI	none	Score	.56
Exons	4290..4477, 5677..5845, 7615..7722		

Seq. No.	55132	Seq. ID	OJ000302_09.0414.C5
Gene No.	115532	Strand	+
Start	9673	End	15354
Name	OJ000302_09.0414.C5.o3.gs	Method	GENSCAN
Start	9673	End	15354
GI	none	Score	.71
Exons	9673..9830, 9879..10105, 11758..11850, 14659..14771, 14947..15354		

Seq. No.	55132	Seq. ID	OJ000302_09.0414.C5
Gene No.	115533	Strand	-
Start	977	End	4564
Name	OJ000302_09.0414.C5.o1.gp	Method	AAT/GAP
Start	837	End	1540
GI	3760217	Score	706
Exons	837..1180, 1504..1540		

Seq. No.	55132	Seq. ID	OJ000302_09.0414.C5
Gene No.	115533	Strand	-
Start	977	End	4564
Name	OJ000302_09.0414.C5.o1.gs	Method	GENSCAN
Start	977	End	3957
GI	none	Score	.74
Exons	977..1180, 1504..1585, 1851..2304, 3008..3379, 3464..3622, 3864..3957		

Seq. No.	55132	Seq. ID	OJ000302_09.0414.C5
Gene No.	115533	Strand	-
Start	977	End	4564
Name	OJ000302_09.0414.C5.o1.np	Method	AAT/NAP
Start	980	End	4470
GI	4038035	Score	606
Exons	980..1180, 1504..1585, 1851..2361, 2988..3581, 4429..4470		
GI Descrip.	(AC005936) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55132	Seq. ID	OJ000302_09.0414.C5
Gene No.	115533	Strand	-
Start	977	End	4564
Name	OJ000302_09.0414.C5.o2.gp	Method	AAT/GAP
Start	3280	End	4564
GI	700385	Score	628
Exons	3280..3379, 3464..3581, 4429..4564		

Seq. No.	55132	Seq. ID	OJ000302_09.0414.C5
Gene No.	115534	Strand	-
Start	4811	End	6116
Name	OJ000302_09.0414.C5.o2.np	Method	AAT/NAP
Start	4811	End	6116
GI	6815099	Score	89
Exons	4811..4927, 6100..6116		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	55132	Seq. ID	OJ000302_09.0414.C5
Gene No.	115535	Strand	-
Start	11373	End	16258
Name	OJ000302_09.0414.C5.o1.tm	Method	TBLASTX:Maize
Start	3083	End	3584
GI	none	Score	75
Exons	3083..3184, 3086..3232, 3088..3378, 3163..3378, 3308..3379, 3463..3519, 3464..3520, 3465..3524, 3468..3527, 3514..3573, 3516..3584, 3529..3582		

Seq. No.	55132	Seq. ID	OJ000302_09.0414.C5
Gene No.	115535	Strand	-
Start	11373	End	16258
Name	OJ000302_09.0414.C5.o3.gp	Method	AAT/GAP
Start	11373	End	12730
GI	40118_1.R1084	Score	1016
Exons	11373..11812, 12552..12629, 12705..12730		
GI Descrip.	'4038034 1.0e-20 (AC005936) unknown protein [Arabidopsis thaliana]'		

Seq. No.	55132	Seq. ID	OJ000302_09.0414.C5
Gene No.	115535	Strand	-
Start	11373	End	16258
Name	OJ000302_09.0414.C5.o3.tm	Method	TBLASTX:Maize
Start	11718	End	13557
GI	none	Score	126
Exons	11718..11813, 11718..11819, 11720..11830, 12549..12635, 12550..12630, 12557..12637, 12691..12759, 12702..12758, 12838..12924, 12839..12925, 13147..13200, 13447..13557, 13465..13545		

Seq. No.	55132	Seq. ID	OJ000302_09.0414.C5
Gene No.	115535	Strand	-
Start	11373	End	16258
Name	OJ000302_09.0414.C5.o2.ts	Method	TBLASTX:Soybean
Start	11720	End	13188
GI	none	Score	116
Exons	11720..11830, 11727..11813, 12552..12629, 12552..12635, 12565..12630, 12702..12758, 12706..12759, 12712..12759, 12838..12924, 12839..12907, 13147..13188		

Seq. No.	55132	Seq. ID	OJ000302_09.0414.C5
Gene No.	115535	Strand	-
Start	11373	End	16258
Name	OJ000302_09.0414.C5.o3.np	Method	AAT/NAP
Start	11723	End	16258
GI	7262697	Score	856
Exons	11723..11812, 12552..12629, 12705..12758, 12841..12904, 13147..13192, 13470..13542, 14114..14185, 14264..14356, 14454..14506, 14599..14689, 14954..15048, 16237..16258		
GI Descrip.	(AC012188) Contains similarity to an unknown protein from Arabidopsis thaliana gb|AC005936.2. EST gb|AI997527 comes from this gene		

Seq. No.	55132	Seq. ID	OJ000302_09.0414.C5
Gene No.	115535	Strand	-
Start	11373	End	16258
Name	OJ000302_09.0414.C5.o1.tc	Method	TBLASTX:Cress
Start	11741	End	12915
GI	none	Score	78
Exons	11741..11830, 11742..11813, 12549..12635, 12552..12629, 12553..12630, 12566..12631, 12696..12761, 12702..12758, 12838..12915, 12839..12913		

Seq. No.	55132	Seq. ID	OJ000302_09.0414.C5
Gene No.	115535	Strand	-
Start	11373	End	16258
Name	OJ000302_09.0414.C5.o4.gp	Method	AAT/GAP
Start	12705	End	15339
GI	29273_1.R1084	Score	1618
Exons	12705..12758, 12840..12904, 13147..13192, 13470..13542, 14114..14185, 14264..14356, 14454..14506, 14599..14689, 14954..15339		
GI Descrip.	'4455287/emb|CAB36823.1| 2.0e-35 (AL035527) putative protein [Arabidopsis thaliana]'		

Seq. No.	55132	Seq. ID	OJ000302_09.0414.C5
Gene No.	115535	Strand	-
Start	11373	End	16258
Name	OJ000302_09.0414.C5.o2.tc	Method	TBLASTX:Cress
Start	13446	End	14365
GI	none	Score	63
Exons	13446..13562, 13447..13545, 13448..13582, 13467..13559, 14105..14185, 14108..14179, 14127..14189, 14257..14361, 14258..14362, 14264..14365		

Seq. No.	55132	Seq. ID	OJ000302_09.0414.C5
Gene No.	115535	Strand	-

Start	11373	End	16258
Name	OJ000302_09.0414.C5.o1.ts	Method	TBLASTX:Soybean
Start	13470	End	15049
GI	none	Score	90
Exons	13470..13493, 13495..13545, 14073..14186, 14105..14185, 14108..14188, 14258..14359, 14264..14356, 14451..14507, 14600..14716, 14601..14690, 14951..15049, 14952..15047		

Seq. No.	55132	Seq. ID	OJ000302_09.0414.C5
Gene No.	115535	Strand	-
Start	11373	End	16258
Name	OJ000302_09.0414.C5.o2.tm	Method	TBLASTX:Maize
Start	14105	End	15050
GI	none	Score	104
Exons	14105..14185, 14110..14190, 14111..14188, 14118..14192, 14119..14190, 14247..14348, 14258..14368, 14264..14356, 14451..14507, 14454..14507, 14598..14693, 14600..14716, 14601..14690, 14951..15049, 14952..15050		

Seq. No.	55133	Seq. ID	OJ000302_09.0414.C6
Gene No.	115536	Strand	-
Start	300	End	1476
Name	OJ000302_09.0414.C6.o1.gs	Method	GENSCAN
Start	300	End	1130
GI	none	Score	.98
Exons	300..375, 942..1130		

Seq. No.	55133	Seq. ID	OJ000302_09.0414.C6
Gene No.	115536	Strand	-
Start	300	End	1476
Name	OJ000302_09.0414.C6.o1.gp	Method	AAT/GAP
Start	997	End	1476
GI	11308_1.R1084	Score	865
Exons	997..1476		
GI Descrip.	'6015437/dbj|AB008112.1|AB008112 2.0e-09 Homo sapiens PEX1 mRNA, complete cds'		

Seq. No.	55134	Seq. ID	OJ000302_09.0414.C8
Gene No.	115537	Strand	+
Start	239	End	633
Name	OJ000302_09.0414.C8.o1.gp	Method	AAT/GAP
Start	239	End	633
GI	uC-osflcyp086h03a1	Score	782
Exons	239..633		
GI Descrip.	'1420932/gb|U61383|ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence'		

Seq. No.	55134	Seq. ID	OJ000302_09.0414.C8
Gene No.	115538	Strand	-
Start	560	End	1015
Name	OJ000302_09.0414.C8.o1.np	Method	AAT/NAP
Start	560	End	1015
GI	6714314	Score	110
Exons	560..877, 940..1015		
GI Descrip.	(AC016972) putative isoprenylated protein [Arabidopsis thaliana]		

Seq. No.	55135	Seq. ID	OJ000302_09.0414.C9

Gene No.	115539	Strand	+
Start	248	End	3954
Name	OJ000302_09.0414.C9.o1.gs	Method	GENSCAN
Start	248	End	3953
GI	none	Score	.73
Exons	248..612, 667..787, 1134..1284, 2172..2306, 2368..2444, 2632..2706, 2809..2874, 3304..3399, 3508..3624, 3861..3953		

Seq. No.	55135	Seq. ID	OJ000302_09.0414.C9
Gene No.	115539	Strand	+
Start	248	End	3954
Name	OJ000302_09.0414.C9.o1.gp	Method	AAT/GAP
Start	425	End	600
GI	1632176	Score	282
Exons	425..600		

Seq. No.	55135	Seq. ID	OJ000302_09.0414.C9
Gene No.	115539	Strand	+
Start	248	End	3954
Name	OJ000302_09.0414.C9.o1.tm	Method	TBLASTX:Maize
Start	442	End	619
GI	none	Score	276
Exons	442..618, 458..619		

Seq. No.	55135	Seq. ID	OJ000302_09.0414.C9
Gene No.	115539	Strand	+
Start	248	End	3954
Name	OJ000302_09.0414.C9.o2.ts	Method	TBLASTX:Soybean
Start	457	End	615
GI	none	Score	247
Exons	457..615, 458..604		

Seq. No.	55135	Seq. ID	OJ000302_09.0414.C9
Gene No.	115539	Strand	+
Start	248	End	3954
Name	OJ000302_09.0414.C9.o2.tc	Method	TBLASTX:Cress
Start	458	End	601
GI	none	Score	214
Exons	458..601, 460..600		

Seq. No.	55135	Seq. ID	OJ000302_09.0414.C9
Gene No.	115539	Strand	+
Start	248	End	3954
Name	OJ000302_09.0414.C9.o2.gp	Method	AAT/GAP
Start	2140	End	2872
GI	none	Score	744
Exons	2140..2306, 2394..2516, 2632..2706, 2809..2872		

Seq. No.	55135	Seq. ID	OJ000302_09.0414.C9
Gene No.	115539	Strand	+
Start	248	End	3954
Name	OJ000302_09.0414.C9.o2.tm	Method	TBLASTX:Maize
Start	2211	End	2666
GI	none	Score	46
Exons	2211..2288, 2252..2287, 2384..2512, 2391..2519, 2391..2549, 2631..2660, 2631..2666		

Seq. No.	55135	Seq. ID	OJ000302_09.0414.C9
Gene No.	115539	Strand	+
Start	248	End	3954
Name	OJ000302_09.0414.C9.o1.np	Method	AAT/NAP
Start	2370	End	3953
GI	5759148	Score	164
Exons	2370..2516, 2632..2706, 2803..2874, 3304..3399, 3508..3627, 3861..3953		
GI Descrip.	(AF170923) dihydrodipicolinate reductase [Mastigocladus laminosus]		

Seq. No.	55135	Seq. ID	OJ000302_09.0414.C9
Gene No.	115539	Strand	+
Start	248	End	3954
Name	OJ000302_09.0414.C9.o1.ts	Method	TBLASTX:Soybean
Start	2381	End	3947
GI	none	Score	140
Exons	2381..2512, 2391..2519, 2622..2696, 2623..2724, 2623..2694, 2806..2874, 2811..2849, 3505..3618, 3507..3617, 3852..3947		

Seq. No.	55135	Seq. ID	OJ000302_09.0414.C9
Gene No.	115539	Strand	+
Start	248	End	3954
Name	OJ000302_09.0414.C9.o1.tc	Method	TBLASTX:Cress
Start	3298	End	3947
GI	none	Score	116
Exons	3298..3405, 3298..3402, 3300..3404, 3502..3618, 3507..3629, 3507..3617, 3852..3947		

Seq. No.	55135	Seq. ID	OJ000302_09.0414.C9
Gene No.	115539	Strand	+
Start	248	End	3954
Name	OJ000302_09.0414.C9.o3.tm	Method	TBLASTX:Maize
Start	3507	End	3954
GI	none	Score	187
Exons	3507..3626, 3508..3624, 3852..3953, 3856..3954		

Seq. No.	55136	Seq. ID	OJ000302_09.0414.C10
Gene No.	115540	Strand	+
Start	166	End	3868
Name	OJ000302_09.0414.C10.o1.gs	Method	GENSCAN
Start	166	End	3868
GI	none	Score	.65
Exons	166..178, 989..1074, 1282..1329, 1555..1680, 1826..1861, 1897..1918, 1933..2587, 2628..2647, 2658..3070, 3137..3711, 3811..3868		

Seq. No.	55136	Seq. ID	OJ000302_09.0414.C10
Gene No.	115540	Strand	+
Start	166	End	3868
Name	OJ000302_09.0414.C10.o3.ts	Method	TBLASTX:Soybean
Start	1929	End	2168
GI	none	Score	196
Exons	1929..2168, 1955..2050		

Seq. No.	55136	Seq. ID	OJ000302_09.0414.C10
Gene No.	115540	Strand	+

Start	166	End	3868
Name	OJ000302_09.0414.C10.o2.tc	Method	TBLASTX:Cress
Start	1956	End	2276
GI	none	Score	266
Exons	1956..2276, 2000..2050, 2126..2263		

Seq. No.	55136	Seq. ID	OJ000302_09.0414.C10
Gene No.	115540	Strand	+
Start	166	End	3868
Name	OJ000302_09.0414.C10.o1.np	Method	AAT/NAP
Start	1981	End	3862
GI	4903018	Score	1240
Exons	1981..2587, 2668..3029, 3120..3711, 3811..3862		
GI Descrip.	(AB027507) ACE [Arabidopsis thaliana]		

Seq. No.	55136	Seq. ID	OJ000302_09.0414.C10
Gene No.	115540	Strand	+
Start	166	End	3868
Name	OJ000302_09.0414.C10.o1.tm	Method	TBLASTX:Maize
Start	1995	End	2997
GI	none	Score	92
Exons	1995..2048, 2000..2050, 2142..2579, 2144..2572, 2659..2997, 2660..2995		

Seq. No.	55136	Seq. ID	OJ000302_09.0414.C10
Gene No.	115540	Strand	+
Start	166	End	3868
Name	OJ000302_09.0414.C10.o1.ts	Method	TBLASTX:Soybean
Start	2169	End	2995
GI	none	Score	402
Exons	2169..2585, 2183..2263, 2375..2590, 2647..2994, 2648..2995		

Seq. No.	55136	Seq. ID	OJ000302_09.0414.C10
Gene No.	115540	Strand	+
Start	166	End	3868
Name	OJ000302_09.0414.C10.o1.tc	Method	TBLASTX:Cress
Start	2277	End	2907
GI	none	Score	339
Exons	2277..2588, 2369..2587, 2660..2704, 2693..2899, 2728..2907		

Seq. No.	55136	Seq. ID	OJ000302_09.0414.C10
Gene No.	115540	Strand	+
Start	166	End	3868
Name	OJ000302_09.0414.C10.o2.ts	Method	TBLASTX:Soybean
Start	3230	End	3840
GI	none	Score	264
Exons	3230..3439, 3235..3414, 3445..3585, 3446..3712, 3485..3715, 3808..3840		

Seq. No.	55136	Seq. ID	OJ000302_09.0414.C10
Gene No.	115540	Strand	+
Start	166	End	3868
Name	OJ000302_09.0414.C10.o3.tc	Method	TBLASTX:Cress
Start	3230	End	3427
GI	none	Score	233
Exons	3230..3427, 3235..3414		

Seq. No.	55136	Seq. ID	OJ000302_09.0414.C10
Gene No.	115540	Strand	+
Start	166	End	3868
Name	OJ000302_09.0414.C10.o3.tm	Method	TBLASTX:Maize
Start	3230	End	3427
GI	none	Score	212
Exons	3230..3427, 3235..3390		

Seq. No.	55136	Seq. ID	OJ000302_09.0414.C10
Gene No.	115540	Strand	+
Start	166	End	3868
Name	OJ000302_09.0414.C10.o2.tm	Method	TBLASTX:Maize
Start	3488	End	3715
GI	none	Score	257
Exons	3488..3712, 3527..3715		

Seq. No.	55136	Seq. ID	OJ000302_09.0414.C10
Gene No.	115540	Strand	+
Start	166	End	3868
Name	OJ000302_09.0414.C10.o4.tc	Method	TBLASTX:Cress
Start	3530	End	3852
GI	none	Score	189
Exons	3530..3712, 3538..3579, 3557..3715, 3808..3852		

Seq. No.	55137	Seq. ID	OJ000302_09.0414.C11
Gene No.	115541	Strand	+
Start	1211	End	11701
Name	OJ000302_09.0414.C11.o1.gs	Method	GENSCAN
Start	1211	End	11701
GI	none	Score	.63
Exons	1211..1367, 2626..2793, 3181..3343, 4669..4775, 5078..5210, 5296..5439, 5758..5916, 6034..6107, 6193..6268, 6645..6700, 6820..6907, 6993..7133, 7226..7375, 7489..7645, 9352..9942, 11226..11458, 11495..11701		

Seq. No.	55137	Seq. ID	OJ000302_09.0414.C11
Gene No.	115541	Strand	+
Start	1211	End	11701
Name	OJ000302_09.0414.C11.o1.np	Method	AAT/NAP
Start	3281	End	7677
GI	1708236	Score	1518
Exons	3281..3343, 4669..4775, 5078..5210, 5296..5439, 5758..5916, 6034..6107, 6193..6268, 6645..6700, 6820..6907, 6993..7133, 7226..7375, 7489..7677		
GI Descrip.	HYDROXYMETHYLGLUTARYL-COA SYNTHASE (HMG-COA SYNTHASE) (3-HYDROXY-3-METHYLGLUTARYL COENZYME A SYNTHASE) gi|2129617|pir||JC4567 hydroxymethylglutaryl-CoA synthase (EC 4.1.3.5) - Arabidopsis thaliana gi|1143390|emb|CAA58763.1| (X83882) hydroxymethylglutaryl-CoA synthase [Arabidopsis thaliana] gi|1586548|prf||2204245A hydroxy methylglutaryl CoA synthase [Arabidopsis th		

Seq. No.	55137	Seq. ID	OJ000302_09.0414.C11
Gene No.	115541	Strand	+
Start	1211	End	11701
Name	OJ000302_09.0414.C11.o1.gp	Method	AAT/GAP
Start	5100	End	5896

GI	uC-osf1M202096a07b1	Score	722
Exons	5100..5210, 5296..5439, 5758..5896		
GI Descrip.	'1655679/emb|CAA65250| 4.0e-56 (X96386) 3-hydroxy-3-methylglutaryl-CoA-synthase [Pinus sylvestris]'		

Seq. No.	55137	Seq. ID	OJ000302_09.0414.C11
Gene No.	115541	Strand	+
Start	1211	End	11701
Name	OJ000302_09.0414.C11.o2.gp	Method	AAT/GAP
Start	6793	End	7923
GI	32604_1.R1084	Score	1475
Exons	6793..6907, 6993..7133, 7226..7375, 7489..7923		
GI Descrip.	'1708236/sp|P54873|HMCS_ARATH 8.0e-61 HYDROXYMETHYLGLUTARYL-COA SYNTHASE (HMG-COA SYNTHASE) (3-HYDROXY-3-METHYLGLUTARYL COENZYME A SYNTHASE) >gi_2129617_pir__JC4567 hydroxymethylglutaryl-CoA synthase (EC 4.1.3.5) - Arabidopsis thaliana >gi_1143390_emb_CAA58763_ (X83882) hydroxymethylglutaryl-CoA synthase [Arabidopsis thaliana] >gi_1586548_prf__2204245A hydroxy methylglutaryl CoA synt'		

Seq. No.	55137	Seq. ID	OJ000302_09.0414.C11
Gene No.	115542	Strand	+
Start	21928	End	22503
Name	OJ000302_09.0414.C11.o4.gp	Method	AAT/GAP
Start	21928	End	22503
GI	40775_1.R1084	Score	1081
Exons	21928..22503		
GI Descrip.	'3193320 8.0e-10 (AF069299) contains similarity to the subtilase family of serine proteases (Pfam: subtilase.hmm, score: 47.57); strong similarity to Cucumis melo (muskmelon) cucumisin (GB:D32206) [Arabidopsis thaliana]'		

Seq. No.	55137	Seq. ID	OJ000302_09.0414.C11
Gene No.	115543	Strand	-
Start	12741	End	24508
Name	OJ000302_09.0414.C11.o3.tc	Method	TBLASTX:Cress
Start	3287	End	7650
GI	none	Score	91
Exons	3287..3343, 4657..4779, 4657..4773, 4689..4775, 5075..5209, 5076..5210, 5293..5442, 5298..5441, 5319..5444, 5758..5919, 5804..5920, 6033..6104, 6034..6108, 6190..6279, 6191..6283, 6642..6716, 6644..6700, 6818..6910, 6818..6910, 6990..7142, 7001..7120, 7218..7349, 7225..7374, 7226..7372, 7486..7569, 7491..7580, 7569..7646, 7576..7650		

Seq. No.	55137	Seq. ID	OJ000302_09.0414.C11
Gene No.	115543	Strand	-
Start	12741	End	24508
Name	OJ000302_09.0414.C11.o6.tm	Method	TBLASTX:Maize
Start	3287	End	6113
GI	none	Score	97
Exons	3287..3343, 3291..3350, 3291..3344, 4657..4773, 4662..4778, 4666..4773, 4689..4775, 5064..5210, 5075..5239, 5076..5210, 5279..5440, 5293..5442, 5295..5441, 5756..5917, 5758..5919, 5758..5928, 5843..5953, 6029..6109, 6033..6113, 6034..6108		

Seq. No.	55137	Seq. ID	OJ000302_09.0414.C11

Gene No.	115543	Strand	-
Start	12741	End	24508
Name	OJ000302_09.0414.C11.o2.ts	Method	TBLASTX:Soybean
Start	3290	End	7656
GI	none	Score	87
Exons	3290..3343, 3290..3343, 3292..3345, 3307..3345, 4657..4773, 4666..4773, 4668..4778, 4689..4775, 5075..5209, 5076..5210, 5076..5210, 5301..5444, 5302..5442, 5753..5911, 5758..5919, 5761..5913, 6034..6108, 6036..6119, 6191..6283, 6196..6279, 6642..6707, 6644..6706, 6818..6907, 6990..7142, 7001..7105, 7224..7349, 7228..7350, 7229..7369, 7235..7363, 7486..7644, 7494..7637, 7531..7656		

Seq. No.	55137	Seq. ID	OJ000302_09.0414.C11
Gene No.	115543	Strand	-
Start	12741	End	24508
Name	OJ000302_09.0414.C11.o3.tm	Method	TBLASTX:Maize
Start	6191	End	7679
GI	none	Score	62
Exons	6191..6283, 6642..6707, 6644..6706, 6817..6873, 6818..6907, 6819..6908, 6990..7133, 6992..7138, 6992..7120, 7224..7376, 7225..7377, 7226..7378, 7488..7658, 7489..7659, 7644..7679		

Seq. No.	55137	Seq. ID	OJ000302_09.0414.C11
Gene No.	115543	Strand	-
Start	12741	End	24508
Name	OJ000302_09.0414.C11.o4.tc	Method	TBLASTX:Cress
Start	11378	End	11698
GI	none	Score	87
Exons	11378..11443, 11441..11698, 11470..11694		

Seq. No.	55137	Seq. ID	OJ000302_09.0414.C11
Gene No.	115543	Strand	-
Start	12741	End	24508
Name	OJ000302_09.0414.C11.o10.tm	Method	TBLASTX:Maize
Start	12718	End	13431
GI	none	Score	179
Exons	12718..12864, 12734..12877, 12735..12863, 13345..13431		

Seq. No.	55137	Seq. ID	OJ000302_09.0414.C11
Gene No.	115543	Strand	-
Start	12741	End	24508
Name	OJ000302_09.0414.C11.o2.gs	Method	GENSCAN
Start	12741	End	24383
GI	none	Score	.46
Exons	12741..12863, 13396..13582, 13685..13932, 14393..14690, 15310..15518, 15695..15895, 15973..16239, 16272..16442, 16574..16722, 16949..17096, 17337..17585, 17685..17723, 18374..19404, 20356..20377, 20556..20599, 22082..22254, 22263..24383		

Seq. No.	55137	Seq. ID	OJ000302_09.0414.C11
Gene No.	115543	Strand	-
Start	12741	End	24508
Name	OJ000302_09.0414.C11.o7.tm	Method	TBLASTX:Maize
Start	13468	End	14461
GI	none	Score	142

Exons	13468..13587, 13469..13588, 13657..13932, 13682..13930, 14334..14459, 14390..14461		
Seq. No.	55137	Seq. ID	OJ000302_09.0414.C11
Gene No.	115543	Strand	-
Start	12741	End	24508
Name	OJ000302_09.0414.C11.o3.gp	Method	AAT/GAP
Start	13481	End	14580
GI	none	Score	1036
Exons	13481..13582, 13685..13932, 14393..14580		
Seq. No.	55137	Seq. ID	OJ000302_09.0414.C11
Gene No.	115543	Strand	-
Start	12741	End	24508
Name	OJ000302_09.0414.C11.o5.ts	Method	TBLASTX:Soybean
Start	13490	End	14461
GI	none	Score	97
Exons	13490..13588, 13492..13587, 13497..13598, 13657..13932, 13682..13933, 14390..14461		
Seq. No.	55137	Seq. ID	OJ000302_09.0414.C11
Gene No.	115543	Strand	-
Start	12741	End	24508
Name	OJ000302_09.0414.C11.o2.tc	Method	TBLASTX:Cress
Start	15600	End	19225
GI	none	Score	291
Exons	15600..15896, 15602..15898, 15815..15898, 15966..16145, 15966..16061, 15967..16146, 15970..16164, 15977..16159, 16251..16298, 16326..16439, 16327..16437, 16384..16440, 16569..16724, 16574..16723, 16914..17099, 16948..17097, 16975..17106, 17184..17255, 17185..17253, 17197..17256, 17334..17567, 17336..17629, 17337..17435, 17398..17568, 17462..17611, 17676..17882, 17685..17861, 17689..17880, 17759..17887, 18032..18154, 18063..18113, 18383..18475, 18384..18470, 18491..18823, 18492..18824, 18836..19009, 18903..19019, 19038..19085, 19043..19084, 19118..19225		
Seq. No.	55137	Seq. ID	OJ000302_09.0414.C11
Gene No.	115543	Strand	-
Start	12741	End	24508
Name	OJ000302_09.0414.C11.o1.tw	Method	TBLASTX:Wheat
Start	15602	End	16011
GI	none	Score	319
Exons	15602..15898, 15603..15896, 15970..16011, 15974..16009		
Seq. No.	55137	Seq. ID	OJ000302_09.0414.C11
Gene No.	115543	Strand	-
Start	12741	End	24508
Name	OJ000302_09.0414.C11.o2.np	Method	AAT/NAP
Start	15605	End	19252
GI	1871182	Score	2746
Exons	15605..15895, 15973..16170, 16272..16442, 16574..16722, 16934..17096, 17184..17252, 17337..17569, 17669..17879, 18038..18154, 18374..19252		
GI Descrip.	(U90439) phospholipase D [Arabidopsis thaliana]		
Seq. No.	55137	Seq. ID	OJ000302_09.0414.C11

Gene No.	115543	Strand	-
Start	12741	End	24508
Name	OJ000302_09.0414.C11.o3.ts	Method	TBLASTX:Soybean
Start	15608	End	17079
GI	none	Score	193
Exons	15608..15898, 15639..15890, 15968..16123, 15970..16161, 16254..16439, 16326..16436, 16327..16446, 16569..16724, 16571..16726, 16571..16723, 16573..16737, 16917..17069, 16953..17066, 16957..17079		

Seq. No.	55137	Seq. ID	OJ000302_09.0414.C11
Gene No.	115543	Strand	-
Start	12741	End	24508
Name	OJ000302_09.0414.C11.o4.tm	Method	TBLASTX:Maize
Start	15608	End	17079
GI	none	Score	193
Exons	15608..15898, 15639..15890, 15968..16123, 15970..16161, 16254..16439, 16326..16436, 16327..16446, 16569..16724, 16571..16726, 16571..16723, 16573..16737, 16917..17069, 16953..17066, 16957..17079		

Seq. No.	55137	Seq. ID	OJ000302_09.0414.C11
Gene No.	115543	Strand	-
Start	12741	End	24508
Name	OJ000302_09.0414.C11.o4.tw	Method	TBLASTX:Wheat
Start	16015	End	16174
GI	none	Score	119
Exons	16015..16170, 16016..16174		

Seq. No.	55137	Seq. ID	OJ000302_09.0414.C11
Gene No.	115543	Strand	-
Start	12741	End	24508
Name	OJ000302_09.0414.C11.o6.ts	Method	TBLASTX:Soybean
Start	17184	End	17768
GI	none	Score	127
Exons	17184..17255, 17334..17372, 17469..17567, 17470..17568, 17667..17768		

Seq. No.	55137	Seq. ID	OJ000302_09.0414.C11
Gene No.	115543	Strand	-
Start	12741	End	24508
Name	OJ000302_09.0414.C11.o5.tm	Method	TBLASTX:Maize
Start	17226	End	17880
GI	none	Score	48
Exons	17226..17255, 17227..17256, 17334..17480, 17337..17453, 17442..17585, 17443..17595, 17444..17593, 17673..17879, 17681..17866, 17689..17880		

Seq. No.	55137	Seq. ID	OJ000302_09.0414.C11
Gene No.	115543	Strand	-
Start	12741	End	24508
Name	OJ000302_09.0414.C11.o4.ts	Method	TBLASTX:Soybean
Start	17772	End	19024
GI	none	Score	63
Exons	17772..17822, 17832..17879, 17993..18154, 18386..18487, 18399..18488, 18491..18721, 18491..18727, 18519..18728, 18833..19024		

Seq. No.	55137	Seq. ID	OJ000302_09.0414.C11
Gene No.	115543	Strand	-
Start	12741	End	24508
Name	OJ000302_09.0414.C11.o9.tm	Method	TBLASTX:Maize
Start	17993	End	19025
GI	none	Score	103
Exons	17993..18154, 18386..18487, 18461..18721, 18492..18716, 18833..19024, 18903..19025		

Seq. No.	55137	Seq. ID	OJ000302_09.0414.C11
Gene No.	115543	Strand	-
Start	12741	End	24508
Name	OJ000302_09.0414.C11.o2.tw	Method	TBLASTX:Wheat
Start	18407	End	18777
GI	none	Score	45
Exons	18407..18487, 18408..18488, 18464..18730, 18465..18731, 18700..18777		

Seq. No.	55137	Seq. ID	OJ000302_09.0414.C11
Gene No.	115543	Strand	-
Start	12741	End	24508
Name	OJ000302_09.0414.C11.o2.tm	Method	TBLASTX:Maize
Start	22137	End	22751
GI	none	Score	717
Exons	22137..22751, 22151..22750		

Seq. No.	55137	Seq. ID	OJ000302_09.0414.C11
Gene No.	115543	Strand	-
Start	12741	End	24508
Name	OJ000302_09.0414.C11.o3.np	Method	AAT/NAP
Start	22160	End	24508
GI	7435661	Score	1545
Exons	22160..24238, 24452..24508		
GI Descrip.	subtilisin-like proteinase (EC 3.4.21.-) p69f - tomato gi|3183991|emb|CAA06414.1| (AJ005173) P69F protein [Lycopersicon esculentum]		

Seq. No.	55137	Seq. ID	OJ000302_09.0414.C11
Gene No.	115543	Strand	-
Start	12741	End	24508
Name	OJ000302_09.0414.C11.o3.tw	Method	TBLASTX:Wheat
Start	22178	End	22498
GI	none	Score	44
Exons	22178..22231, 22181..22231, 22238..22498, 22239..22451		

Seq. No.	55137	Seq. ID	OJ000302_09.0414.C11
Gene No.	115543	Strand	-
Start	12741	End	24508
Name	OJ000302_09.0414.C11.o1.ts	Method	TBLASTX:Soybean
Start	22181	End	24327
GI	none	Score	57
Exons	22181..22342, 22430..22642, 22548..22634, 22667..22831, 22710..22826, 22842..23039, 22874..23194, 23216..23260, 23345..23548, 23349..23540, 23570..23803, 23577..23753, 23801..23998, 24047..24202, 24301..24327		

Seq. No.	55137	Seq. ID	OJ000302_09.0414.C11
Gene No.	115543	Strand	-
Start	12741	End	24508
Name	OJ000302_09.0414.C11.o1.tc	Method	TBLASTX:Cress
Start	22430	End	24214
GI	none	Score	46
Exons	22430..22633, 22548..22634, 22667..22846, 22710..22814, 22818..23186, 22874..23212, 23216..23260, 23342..23548, 23349..23549, 23576..23809, 23670..23753, 23798..24214		

Seq. No.	55137	Seq. ID	OJ000302_09.0414.C11
Gene No.	115543	Strand	-
Start	12741	End	24508
Name	OJ000302_09.0414.C11.o5.gp	Method	AAT/GAP
Start	22532	End	23070
GI	uC-osflcyp153g10b1	Score	984
Exons	22532..23070		
GI Descrip.	'3183991/emb|CAA06414.1| 3.0e-44 (AJ005173) P69F protein [Lycopersicon esculentum]'		

Seq. No.	55137	Seq. ID	OJ000302_09.0414.C11
Gene No.	115543	Strand	-
Start	12741	End	24508
Name	OJ000302_09.0414.C11.o6.tw	Method	TBLASTX:Wheat
Start	22676	End	22979
GI	none	Score	72
Exons	22676..22855, 22710..22889, 22836..22925, 22868..22924, 22944..22979		

Seq. No.	55137	Seq. ID	OJ000302_09.0414.C11
Gene No.	115543	Strand	-
Start	12741	End	24508
Name	OJ000302_09.0414.C11.o1.tm	Method	TBLASTX:Maize
Start	22751	End	24014
GI	none	Score	210
Exons	22751..22933, 22751..24013, 22755..24014		

Seq. No.	55137	Seq. ID	OJ000302_09.0414.C11
Gene No.	115543	Strand	-
Start	12741	End	24508
Name	OJ000302_09.0414.C11.o5.tw	Method	TBLASTX:Wheat
Start	23216	End	23725
GI	none	Score	109
Exons	23216..23242, 23345..23563, 23345..23557, 23576..23662, 23648..23725		

Seq. No.	55137	Seq. ID	OJ000302_09.0414.C11
Gene No.	115543	Strand	-
Start	12741	End	24508
Name	OJ000302_09.0414.C11.o8.tm	Method	TBLASTX:Maize
Start	24014	End	24345
GI	none	Score	184
Exons	24014..24244, 24017..24202, 24063..24206, 24245..24292, 24247..24291, 24265..24336, 24282..24344, 24283..24345		

Seq. No.	55137	Seq. ID	OJ000302_09.0414.C11
Gene No.	115543	Strand	-

Start	12741	End	24508
Name	OJ000302_09.0414.C11.o6.gp	Method	AAT/GAP
Start	24125	End	24505
GI	none	Score	735
Exons	24125..24505		

Seq. No.	55138	Seq. ID	OJ000112_05.0426.C1
Gene No.	115544	Strand	-
Start	1792	End	2341
Name	OJ000112_05.0426.C1.o1.np	Method	AAT/NAP
Start	1712	End	2341
GI	7489834	Score	404
Exons	1712..2341		
GI Descrip.	viviparous-14 protein - maize gi|2232017|gb|AAB62181.1| (U95953) viviparous-14 [Zea mays]		

Seq. No.	55138	Seq. ID	OJ000112_05.0426.C1
Gene No.	115544	Strand	-
Start	1792	End	2341
Name	OJ000112_05.0426.C1.o1.gs	Method	GENSCAN
Start	1792	End	2313
GI	none	Score	1
Exons	1792..2313		

Seq. No.	55138	Seq. ID	OJ000112_05.0426.C1
Gene No.	115544	Strand	-
Start	1792	End	2341
Name	OJ000112_05.0426.C1.o1.ts	Method	TBLASTX:Soybean
Start	1990	End	2314
GI	none	Score	98
Exons	1990..2121, 1991..2122, 2128..2199, 2249..2314, 2251..2313		

Seq. No.	55139	Seq. ID	OJ000112_05.0426.C2
Gene No.	115545	Strand	+
Start	1	End	2515
Name	OJ000112_05.0426.C2.o1.np	Method	AAT/NAP
Start	1	End	2515
GI	7228442	Score	1833
Exons	1..105, 444..2260, 2438..2515		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog. (AC003981) [Oryza sativa]		

Seq. No.	55139	Seq. ID	OJ000112_05.0426.C2
Gene No.	115545	Strand	+
Start	1	End	2515
Name	OJ000112_05.0426.C2.o1.tm	Method	TBLASTX:Maize
Start	982	End	1581
GI	none	Score	74
Exons	982..1098, 991..1098, 1156..1455, 1167..1466, 1510..1581		

Seq. No.	55139	Seq. ID	OJ000112_05.0426.C2
Gene No.	115545	Strand	+
Start	1	End	2515
Name	OJ000112_05.0426.C2.o1.tw	Method	TBLASTX:Wheat
Start	1285	End	1659
GI	none	Score	142

Exons	1285..1476, 1285..1494, 1492..1659, 1497..1658		
Seq. No.	55140	Seq. ID	OJ000112_05.0426.C3
Gene No.	115546	Strand	+
Start	19	End	1731
Name	OJ000112_05.0426.C3.o1.gs	Method	GENSCAN
Start	19	End	1731
GI	none	Score	.75
Exons	19..61, 1373..1485, 1585..1731		
Seq. No.	55141	Seq. ID	OJ000112_05.0426.C5
Gene No.	115547	Strand	+
Start	817	End	933
Name	OJ000112_05.0426.C5.o1.gs	Method	GENSCAN
Start	817	End	933
GI	none	Score	.98
Exons	817..933		
Seq. No.	55141	Seq. ID	OJ000112_05.0426.C5
Gene No.	115548	Strand	-
Start	1320	End	1664
Name	OJ000112_05.0426.C5.o2.gs	Method	GENSCAN
Start	1320	End	1664
GI	none	Score	1
Exons	1320..1664		
Seq. No.	55142	Seq. ID	OJ000112_05.0426.C6
Gene No.	115549	Strand	+
Start	4198	End	4332
Name	OJ000112_05.0426.C6.o2.np	Method	AAT/NAP
Start	4198	End	4332
GI	7106528	Score	99
Exons	4198..4332		
GI Descrip.	(AP001278) EST D40774(S2920) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		
Seq. No.	55142	Seq. ID	OJ000112_05.0426.C6
Gene No.	115550	Strand	-
Start	308	End	5402
Name	OJ000112_05.0426.C6.o1.tw	Method	TBLASTX:Wheat
Start	83	End	1550
GI	none	Score	63
Exons	83..175, 1179..1316, 1207..1305, 1304..1339, 1305..1328, 1382..1549, 1449..1550		
Seq. No.	55142	Seq. ID	OJ000112_05.0426.C6
Gene No.	115550	Strand	-
Start	308	End	5402
Name	OJ000112_05.0426.C6.o1.np	Method	AAT/NAP
Start	308	End	4859
GI	5902444	Score	597
Exons	308..460, 1080..2591, 2627..2742, 4799..4859		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		
Seq. No.	55142	Seq. ID	OJ000112_05.0426.C6
Gene No.	115550	Strand	-
Start	308	End	5402

Name	OJ000112_05.0426.C6.o2.gs	Method	GENSCAN
Start	1887	End	3947
GI	none	Score	.76
Exons	1887..2082, 2319..2373, 2409..2607, 2722..2842, 3808..3947		

Seq. No.	55142	Seq. ID	OJ000112_05.0426.C6
Gene No.	115550	Strand	-
Start	308	End	5402
Name	OJ000112_05.0426.C6.o1.gp	Method	AAT/GAP
Start	4166	End	4309
GI	21474_1.R1084	Score	254
Exons	4166..4309		
GI Descrip.	'3894159 2.0e-10 (AC005312) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	55142	Seq. ID	OJ000112_05.0426.C6
Gene No.	115550	Strand	-
Start	308	End	5402
Name	OJ000112_05.0426.C6.o3.gs	Method	GENSCAN
Start	4664	End	5402
GI	none	Score	.84
Exons	4664..4849, 4982..5027, 5135..5224, 5292..5402		

Seq. No.	55143	Seq. ID	OJ000112_05.0426.C7
Gene No.	115551	Strand	-
Start	1	End	2884
Name	OJ000112_05.0426.C7.o1.np	Method	AAT/NAP
Start	1	End	2884
GI	4680204	Score	971
Exons	1..165, 275..1373, 1448..2884		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	55143	Seq. ID	OJ000112_05.0426.C7
Gene No.	115551	Strand	-
Start	1	End	2884
Name	OJ000112_05.0426.C7.o1.gs	Method	GENSCAN
Start	9	End	2869
GI	none	Score	.75
Exons	9..165, 275..960, 962..1182, 1232..1373, 1448..1567, 1613..1992, 2071..2869		

Seq. No.	55143	Seq. ID	OJ000112_05.0426.C7
Gene No.	115551	Strand	-
Start	1	End	2884
Name	OJ000112_05.0426.C7.o1.tw	Method	TBLASTX:Wheat
Start	1838	End	2243
GI	none	Score	42
Exons	1838..1933, 1838..2008, 1971..2243, 2003..2239		

Seq. No.	55144	Seq. ID	OJ000112_05.0426.C8
Gene No.	115552	Strand	-
Start	1	End	2825
Name	OJ000112_05.0426.C8.o1.gp	Method	AAT/GAP
Start	1	End	2825
GI	342_1.R1084	Score	4843
Exons	1..2825		
GI Descrip.	'4574406/gb|AAD24042.1| 0.0e+00 (AF121139) RIM2 protein [Oryza		

sativa]'

Seq. No.	55144	Seq. ID	OJ000112_05.0426.C8
Gene No.	115552	Strand	-
Start	1	End	2825
Name	OJ000112_05.0426.C8.o1.gs	Method	GENSCAN
Start	395	End	2809
GI	none	Score	.99
Exons	395..2809		

Seq. No.	55144	Seq. ID	OJ000112_05.0426.C8
Gene No.	115552	Strand	-
Start	1	End	2825
Name	OJ000112_05.0426.C8.o1.tw	Method	TBLASTX:Wheat
Start	470	End	1787
GI	none	Score	52
Exons	470..562, 471..536, 551..631, 644..784, 645..785, 732..827, 764..823, 830..874, 835..870, 869..1786, 885..1787		

Seq. No.	55144	Seq. ID	OJ000112_05.0426.C8
Gene No.	115552	Strand	-
Start	1	End	2825
Name	OJ000112_05.0426.C8.o1.np	Method	AAT/NAP
Start	954	End	2825
GI	6742729	Score	2999
Exons	954..2825		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	55144	Seq. ID	OJ000112_05.0426.C8
Gene No.	115552	Strand	-
Start	1	End	2825
Name	OJ000112_05.0426.C8.o1.tc	Method	TBLASTX:Cress
Start	1052	End	1503
GI	none	Score	188
Exons	1052..1489, 1052..1495, 1056..1499, 1062..1499, 1321..1503		

Seq. No.	55144	Seq. ID	OJ000112_05.0426.C8
Gene No.	115552	Strand	-
Start	1	End	2825
Name	OJ000112_05.0426.C8.o2.tm	Method	TBLASTX:Maize
Start	1430	End	1744
GI	none	Score	81
Exons	1430..1744, 1458..1541, 1572..1733		

Seq. No.	55144	Seq. ID	OJ000112_05.0426.C8
Gene No.	115552	Strand	-
Start	1	End	2825
Name	OJ000112_05.0426.C8.o3.tw	Method	TBLASTX:Wheat
Start	1788	End	2198
GI	none	Score	81
Exons	1788..1874, 1788..1877, 1790..1879, 1790..1885, 1907..2125, 1947..2129, 2135..2197, 2148..2198		

Seq. No.	55144	Seq. ID	OJ000112_05.0426.C8
Gene No.	115552	Strand	-
Start	1	End	2825
Name	OJ000112_05.0426.C8.o1.ts	Method	TBLASTX:Soybean

Start	2231	End	2473
GI	none	Score	216
Exons	2231..2473		

Seq. No.	55144	Seq. ID	OJ000112_05.0426.C8
Gene No.	115552	Strand	-
Start	1	End	2825
Name	OJ000112_05.0426.C8.o1.tm	Method	TBLASTX:Maize
Start	2303	End	2761
GI	none	Score	103
Exons	2303..2497, 2507..2761, 2507..2749		

Seq. No.	55144	Seq. ID	OJ000112_05.0426.C8
Gene No.	115552	Strand	-
Start	1	End	2825
Name	OJ000112_05.0426.C8.o2.tw	Method	TBLASTX:Wheat
Start	2337	End	2806
GI	none	Score	161
Exons	2337..2543, 2337..2546, 2342..2545, 2342..2566, 2546..2644, 2547..2639, 2648..2752, 2652..2741, 2753..2806, 2754..2798		

Seq. No.	55144	Seq. ID	OJ000112_05.0426.C8
Gene No.	115552	Strand	-
Start	1	End	2825
Name	OJ000112_05.0426.C8.o2.tc	Method	TBLASTX:Cress
Start	2594	End	2815
GI	none	Score	88
Exons	2594..2815, 2613..2750		

Seq. No.	55145	Seq. ID	OJ000112_05.0426.C9
Gene No.	115553	Strand	+
Start	2166	End	4857
Name	OJ000112_05.0426.C9.o2.tw	Method	TBLASTX:Wheat
Start	2155	End	2748
GI	none	Score	234
Exons	2155..2448, 2157..2447, 2503..2619, 2506..2625, 2623..2748, 2640..2747		

Seq. No.	55145	Seq. ID	OJ000112_05.0426.C9
Gene No.	115553	Strand	+
Start	2166	End	4857
Name	OJ000112_05.0426.C9.o1.np	Method	AAT/NAP
Start	2166	End	4143
GI	5911167	Score	1214
Exons	2166..4143		
GI Descrip.	(AF136221) putative transposase protein [Zea mays]		

Seq. No.	55145	Seq. ID	OJ000112_05.0426.C9
Gene No.	115553	Strand	+
Start	2166	End	4857
Name	OJ000112_05.0426.C9.o1.ts	Method	TBLASTX:Soybean
Start	2173	End	2448
GI	none	Score	293
Exons	2173..2448, 2190..2438		

Seq. No.	55145	Seq. ID	OJ000112_05.0426.C9
Gene No.	115553	Strand	+

Start	2166	End	4857
Name	OJ000112_05.0426.C9.o2.ts	Method	TBLASTX:Soybean
Start	2488	End	2763
GI	none	Score	215
Exons	2488..2763, 2523..2762		

Seq. No.	55145	Seq. ID	OJ000112_05.0426.C9
Gene No.	115553	Strand	+
Start	2166	End	4857
Name	OJ000112_05.0426.C9.o2.tc	Method	TBLASTX:Cress
Start	2512	End	2844
GI	none	Score	285
Exons	2512..2844, 2598..2648, 2682..2789		

Seq. No.	55145	Seq. ID	OJ000112_05.0426.C9
Gene No.	115553	Strand	+
Start	2166	End	4857
Name	OJ000112_05.0426.C9.o2.tm	Method	TBLASTX:Maize
Start	2650	End	3135
GI	none	Score	102
Exons	2650..2754, 2658..2753, 2757..2849, 2761..2850, 2918..2953, 2947..2994, 2995..3042, 3042..3131, 3046..3135		

Seq. No.	55145	Seq. ID	OJ000112_05.0426.C9
Gene No.	115553	Strand	+
Start	2166	End	4857
Name	OJ000112_05.0426.C9.o3.tw	Method	TBLASTX:Wheat
Start	2749	End	3084
GI	none	Score	56
Exons	2749..2790, 2794..2892, 2796..2891, 2938..3036, 2949..3020, 3046..3084		

Seq. No.	55145	Seq. ID	OJ000112_05.0426.C9
Gene No.	115553	Strand	+
Start	2166	End	4857
Name	OJ000112_05.0426.C9.o1.tm	Method	TBLASTX:Maize
Start	3640	End	4023
GI	none	Score	63
Exons	3640..3708, 3708..3836, 3708..4022, 3709..4023		

Seq. No.	55145	Seq. ID	OJ000112_05.0426.C9
Gene No.	115553	Strand	+
Start	2166	End	4857
Name	OJ000112_05.0426.C9.o1.tw	Method	TBLASTX:Wheat
Start	3655	End	4797
GI	none	Score	545
Exons	3655..4380, 3795..3845, 3909..4196, 4389..4571, 4399..4587, 4564..4665, 4606..4665, 4696..4797, 4698..4790		

Seq. No.	55145	Seq. ID	OJ000112_05.0426.C9
Gene No.	115553	Strand	+
Start	2166	End	4857
Name	OJ000112_05.0426.C9.o1.tc	Method	TBLASTX:Cress
Start	3955	End	4380
GI	none	Score	311
Exons	3955..4380, 3963..4196		

Seq. No.	55145	Seq. ID	OJ000112_05.0426.C9
Gene No.	115553	Strand	+
Start	2166	End	4857
Name	OJ000112_05.0426.C9.o3.tm	Method	TBLASTX:Maize
Start	4273	End	4563
GI	none	Score	146
Exons	4273..4443, 4321..4437, 4455..4562, 4456..4563		

Seq. No.	55145	Seq. ID	OJ000112_05.0426.C9
Gene No.	115553	Strand	+
Start	2166	End	4857
Name	OJ000112_05.0426.C9.o3.ts	Method	TBLASTX:Soybean
Start	4645	End	4857
GI	none	Score	187
Exons	4645..4857, 4645..4803		

Seq. No.	55146	Seq. ID	OJ000112_05.0426.C10
Gene No.	115554	Strand	+
Start	1	End	2142
Name	OJ000112_05.0426.C10.o1.np	Method	AAT/NAP
Start	1	End	2139
GI	4680179	Score	3224
Exons	1..2139		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	55146	Seq. ID	OJ000112_05.0426.C10
Gene No.	115554	Strand	+
Start	1	End	2142
Name	OJ000112_05.0426.C10.o1.gs	Method	GENSCAN
Start	88	End	2142
GI	none	Score	.71
Exons	88..1164, 1348..2142		

Seq. No.	55146	Seq. ID	OJ000112_05.0426.C10
Gene No.	115555	Strand	+
Start	5656	End	6444
Name	OJ000112_05.0426.C10.o2.np	Method	AAT/NAP
Start	5656	End	6444
GI	6983861	Score	1337
Exons	5656..6444		
GI Descrip.	(AP001168) Similar to gypsy-type retrotransposon RIRE8B DNA, internal region (AB014741) [Oryza sativa]		

Seq. No.	55146	Seq. ID	OJ000112_05.0426.C10
Gene No.	115556	Strand	+
Start	6713	End	8258
Name	OJ000112_05.0426.C10.o3.np	Method	AAT/NAP
Start	6713	End	8258
GI	6983860	Score	2157
Exons	6713..7805, 8061..8258		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	55146	Seq. ID	OJ000112_05.0426.C10
Gene No.	115557	Strand	+
Start	8267	End	8695
Name	OJ000112_05.0426.C10.o4.np	Method	AAT/NAP

Start	8267	End	8695
GI	7489851	Score	507
Exons	8267..8695		
GI Descrip.	probable polyprotein - pineapple retrotransposon deal (fragment) gi|2995405|emb|CAA73042.1| (Y12432) polyprotein [Ananas comosus]		

Seq. No.	55146	Seq. ID	OJ000112_05.0426.C10
Gene No.	115558	Strand	-
Start	2843	End	4860
Name	OJ000112_05.0426.C10.o9.tw	Method	TBLASTX:Wheat
Start	2	End	135
GI	none	Score	89
Exons	2..106, 3..125, 3..134, 4..135		

Seq. No.	55146	Seq. ID	OJ000112_05.0426.C10
Gene No.	115558	Strand	-
Start	2843	End	4860
Name	OJ000112_05.0426.C10.o6.tm	Method	TBLASTX:Maize
Start	15	End	201
GI	none	Score	230
Exons	15..200, 16..201		

Seq. No.	55146	Seq. ID	OJ000112_05.0426.C10
Gene No.	115558	Strand	-
Start	2843	End	4860
Name	OJ000112_05.0426.C10.o3.tw	Method	TBLASTX:Wheat
Start	136	End	561
GI	none	Score	599
Exons	136..561, 138..554		

Seq. No.	55146	Seq. ID	OJ000112_05.0426.C10
Gene No.	115558	Strand	-
Start	2843	End	4860
Name	OJ000112_05.0426.C10.o2.ts	Method	TBLASTX:Soybean
Start	142	End	390
GI	none	Score	206
Exons	142..390		

Seq. No.	55146	Seq. ID	OJ000112_05.0426.C10
Gene No.	115558	Strand	-
Start	2843	End	4860
Name	OJ000112_05.0426.C10.o2.tm	Method	TBLASTX:Maize
Start	208	End	561
GI	none	Score	463
Exons	208..561, 213..554		

Seq. No.	55146	Seq. ID	OJ000112_05.0426.C10
Gene No.	115558	Strand	-
Start	2843	End	4860
Name	OJ000112_05.0426.C10.o2.tw	Method	TBLASTX:Wheat
Start	589	End	1128
GI	none	Score	636
Exons	589..1128, 630..1124, 745..1128		

Seq. No.	55146	Seq. ID	OJ000112_05.0426.C10
Gene No.	115558	Strand	-
Start	2843	End	4860

Name	OJ000112_05.0426.C10.o1.tc	Method	TBLASTX:Cress
Start	826	End	1152
GI	none	Score	90
Exons	826..1008, 1009..1152, 1011..1151		

Seq. No.	55146	Seq. ID	OJ000112_05.0426.C10
Gene No.	115558	Strand	-
Start	2843	End	4860
Name	OJ000112_05.0426.C10.o1.ts	Method	TBLASTX:Soybean
Start	916	End	1176
GI	none	Score	301
Exons	916..1176, 927..1175		

Seq. No.	55146	Seq. ID	OJ000112_05.0426.C10
Gene No.	115558	Strand	-
Start	2843	End	4860
Name	OJ000112_05.0426.C10.o3.tm	Method	TBLASTX:Maize
Start	974	End	1266
GI	none	Score	144
Exons	974..1177, 975..1262, 975..1262, 976..1266		

Seq. No.	55146	Seq. ID	OJ000112_05.0426.C10
Gene No.	115558	Strand	-
Start	2843	End	4860
Name	OJ000112_05.0426.C10.o1.tw	Method	TBLASTX:Wheat
Start	1135	End	1761
GI	none	Score	714
Exons	1135..1761, 1194..1640, 1701..1760		

Seq. No.	55146	Seq. ID	OJ000112_05.0426.C10
Gene No.	115558	Strand	-
Start	2843	End	4860
Name	OJ000112_05.0426.C10.o1.tm	Method	TBLASTX:Maize
Start	1314	End	1899
GI	none	Score	229
Exons	1314..1469, 1315..1476, 1329..1478, 1473..1637, 1474..1899, 1701..1898		

Seq. No.	55146	Seq. ID	OJ000112_05.0426.C10
Gene No.	115558	Strand	-
Start	2843	End	4860
Name	OJ000112_05.0426.C10.o5.tw	Method	TBLASTX:Wheat
Start	1761	End	2094
GI	none	Score	312
Exons	1761..2042, 1762..2094		

Seq. No.	55146	Seq. ID	OJ000112_05.0426.C10
Gene No.	115558	Strand	-
Start	2843	End	4860
Name	OJ000112_05.0426.C10.o2.gs	Method	GENSCAN
Start	2843	End	4860
GI	none	Score	.62
Exons	2843..3430, 4846..4860		

Seq. No.	55146	Seq. ID	OJ000112_05.0426.C10
Gene No.	115559	Strand	
Start	6871	End	7069

Name	OJ000112_05.0426.C10.o8.tw	Method	TBLASTX:Wheat
Start	6871	End	7069
GI	none	Score	215
Exons	6871..7068, 6872..7069, 6896..7069		

Seq. No.	55146	Seq. ID	OJ000112_05.0426.C10
Gene No.	115560	Strand	
Start	7121	End	7471
Name	OJ000112_05.0426.C10.o5.tm	Method	TBLASTX:Maize
Start	7121	End	7426
GI	none	Score	246
Exons	7121..7426		

Seq. No.	55146	Seq. ID	OJ000112_05.0426.C10
Gene No.	115560	Strand	
Start	7121	End	7471
Name	OJ000112_05.0426.C10.o6.tw	Method	TBLASTX:Wheat
Start	7121	End	7471
GI	none	Score	312
Exons	7121..7471		

Seq. No.	55146	Seq. ID	OJ000112_05.0426.C10
Gene No.	115561	Strand	
Start	7805	End	8158
Name	OJ000112_05.0426.C10.o7.tw	Method	TBLASTX:Wheat
Start	7805	End	8158
GI	none	Score	255
Exons	7805..8158, 7805..8083		

Seq. No.	55146	Seq. ID	OJ000112_05.0426.C10
Gene No.	115562	Strand	
Start	8290	End	8694
Name	OJ000112_05.0426.C10.o4.tw	Method	TBLASTX:Wheat
Start	8290	End	8694
GI	none	Score	367
Exons	8290..8598, 8291..8626, 8294..8608, 8613..8690, 8617..8694, 8619..8690		

Seq. No.	55146	Seq. ID	OJ000112_05.0426.C10
Gene No.	115562	Strand	
Start	8290	End	8694
Name	OJ000112_05.0426.C10.o4.tm	Method	TBLASTX:Maize
Start	8300	End	8592
GI	none	Score	332
Exons	8300..8590, 8302..8592		

Seq. No.	55147	Seq. ID	OJ000112_05.0426.C11
Gene No.	115563	Strand	+
Start	7368	End	9964
Name	OJ000112_05.0426.C11.o3.np	Method	AAT/NAP
Start	7368	End	9964
GI	5852180	Score	473
Exons	7368..7420, 8402..8536, 8570..8935, 9923..9964		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	55147	Seq. ID	OJ000112_05.0426.C11
Gene No.	115563	Strand	+

Start	7368	End	9964
Name	OJ000112_05.0426.C11.o2.gs	Method	GENSCAN
Start	8495	End	9840
GI	none	Score	.64
Exons	8495..8991, 9062..9313, 9594..9675, 9770..9840		

Seq. No.	55147	Seq. ID	OJ000112_05.0426.C11
Gene No.	115564	Strand	-
Start	806	End	5327
Name	OJ000112_05.0426.C11.o1.np	Method	AAT/NAP
Start	806	End	5327
GI	4680179	Score	5364
Exons	806..4205, 4239..5327		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	55147	Seq. ID	OJ000112_05.0426.C11
Gene No.	115565	Strand	-
Start	7270	End	7651
Name	OJ000112_05.0426.C11.o6.tw	Method	TBLASTX:Wheat
Start	851	End	1194
GI	none	Score	100
Exons	851..1048, 1043..1189, 1051..1194, 1067..1192		

Seq. No.	55147	Seq. ID	OJ000112_05.0426.C11
Gene No.	115565	Strand	-
Start	7270	End	7651
Name	OJ000112_05.0426.C11.o1.tm	Method	TBLASTX:Maize
Start	1039	End	1629
GI	none	Score	77
Exons	1039..1212, 1049..1231, 1055..1213, 1189..1467, 1191..1469, 1467..1628, 1473..1625, 1486..1629		

Seq. No.	55147	Seq. ID	OJ000112_05.0426.C11
Gene No.	115565	Strand	-
Start	7270	End	7651
Name	OJ000112_05.0426.C11.o1.tw	Method	TBLASTX:Wheat
Start	1197	End	1808
GI	none	Score	153
Exons	1197..1715, 1215..1808, 1294..1752		

Seq. No.	55147	Seq. ID	OJ000112_05.0426.C11
Gene No.	115565	Strand	-
Start	7270	End	7651
Name	OJ000112_05.0426.C11.o4.tm	Method	TBLASTX:Maize
Start	1677	End	1968
GI	none	Score	208
Exons	1677..1967, 1681..1968		

Seq. No.	55147	Seq. ID	OJ000112_05.0426.C11
Gene No.	115565	Strand	-
Start	7270	End	7651
Name	OJ000112_05.0426.C11.o2.ts	Method	TBLASTX:Soybean
Start	1767	End	2027
GI	none	Score	148
Exons	1767..2027, 1768..2022		

Seq. No.	55147	Seq. ID	OJ000112_05.0426.C11

Gene No.	115565	Strand	-
Start	7270	End	7651
Name	OJ000112_05.0426.C11.o1.tc	Method	TBLASTX:Cress
Start	1791	End	2105
GI	none	Score	85
Exons	1791..1934, 1792..1932, 1935..2105		

Seq. No.	55147	Seq. ID	OJ000112_05.0426.C11
Gene No.	115565	Strand	-
Start	7270	End	7651
Name	OJ000112_05.0426.C11.o2.tw	Method	TBLASTX:Wheat
Start	1815	End	2382
GI	none	Score	336
Exons	1815..2348, 1816..2382		

Seq. No.	55147	Seq. ID	OJ000112_05.0426.C11
Gene No.	115565	Strand	-
Start	7270	End	7651
Name	OJ000112_05.0426.C11.o2.tm	Method	TBLASTX:Maize
Start	2373	End	2736
GI	none	Score	181
Exons	2373..2735, 2382..2735, 2386..2736		

Seq. No.	55147	Seq. ID	OJ000112_05.0426.C11
Gene No.	115565	Strand	-
Start	7270	End	7651
Name	OJ000112_05.0426.C11.o3.tw	Method	TBLASTX:Wheat
Start	2385	End	2807
GI	none	Score	367
Exons	2385..2807, 2386..2775		

Seq. No.	55147	Seq. ID	OJ000112_05.0426.C11
Gene No.	115565	Strand	-
Start	7270	End	7651
Name	OJ000112_05.0426.C11.o3.ts	Method	TBLASTX:Soybean
Start	2556	End	2801
GI	none	Score	93
Exons	2556..2801, 2557..2784		

Seq. No.	55147	Seq. ID	OJ000112_05.0426.C11
Gene No.	115565	Strand	-
Start	7270	End	7651
Name	OJ000112_05.0426.C11.o3.tm	Method	TBLASTX:Maize
Start	2772	End	3272
GI	none	Score	50
Exons	2772..3086, 2815..2865, 2893..3021, 3093..3272, 3145..3264		

Seq. No.	55147	Seq. ID	OJ000112_05.0426.C11
Gene No.	115565	Strand	-
Start	7270	End	7651
Name	OJ000112_05.0426.C11.o5.tw	Method	TBLASTX:Wheat
Start	2808	End	3110
GI	none	Score	184
Exons	2808..3110, 2814..3107, 2824..3108		

Seq. No.	55147	Seq. ID	OJ000112_05.0426.C11
Gene No.	115565	Strand	-

Start	7270	End	7651
Name	OJ000112_05.0426.C11.o1.ts	Method	TBLASTX:Soybean
Start	2823	End	3218
GI	none	Score	222
Exons	2823..3182, 2824..3114, 3145..3180, 3186..3218, 3187..3216		

Seq. No.	55147	Seq. ID	OJ000112_05.0426.C11
Gene No.	115565	Strand	-
Start	7270	End	7651
Name	OJ000112_05.0426.C11.o4.tw	Method	TBLASTX:Wheat
Start	3159	End	3645
GI	none	Score	261
Exons	3159..3536, 3202..3645, 3591..3641		

Seq. No.	55147	Seq. ID	OJ000112_05.0426.C11
Gene No.	115565	Strand	-
Start	7270	End	7651
Name	OJ000112_05.0426.C11.o5.tm	Method	TBLASTX:Maize
Start	3340	End	3630
GI	none	Score	191
Exons	3340..3630, 3342..3629		

Seq. No.	55147	Seq. ID	OJ000112_05.0426.C11
Gene No.	115565	Strand	-
Start	7270	End	7651
Name	OJ000112_05.0426.C11.o8.tw	Method	TBLASTX:Wheat
Start	3741	End	4178
GI	none	Score	73
Exons	3741..3782, 3810..3923, 3811..3924, 3969..4178, 3970..4122		

Seq. No.	55147	Seq. ID	OJ000112_05.0426.C11
Gene No.	115565	Strand	-
Start	7270	End	7651
Name	OJ000112_05.0426.C11.o7.tm	Method	TBLASTX:Maize
Start	3861	End	4214
GI	none	Score	188
Exons	3861..4214		

Seq. No.	55147	Seq. ID	OJ000112_05.0426.C11
Gene No.	115565	Strand	-
Start	7270	End	7651
Name	OJ000112_05.0426.C11.o7.tw	Method	TBLASTX:Wheat
Start	4497	End	4817
GI	none	Score	68
Exons	4497..4817, 4654..4812		

Seq. No.	55147	Seq. ID	OJ000112_05.0426.C11
Gene No.	115565	Strand	-
Start	7270	End	7651
Name	OJ000112_05.0426.C11.o6.tm	Method	TBLASTX:Maize
Start	4542	End	4814
GI	none	Score	65
Exons	4542..4814, 4717..4803		

Seq. No.	55147	Seq. ID	OJ000112_05.0426.C11
Gene No.	115565	Strand	-
Start	7270	End	7651

Name	OJ000112_05.0426.C11.o9.tw	Method	TBLASTX:Wheat
Start	4830	End	5148
GI	none	Score	117
Exons	4830..4874, 4885..5082, 4887..5084, 5097..5144, 5134..5148		

Seq. No.	55147	Seq. ID	OJ000112_05.0426.C11
Gene No.	115565	Strand	-
Start	7270	End	7651
Name	OJ000112_05.0426.C11.o1.gp	Method	AAT/GAP
Start	7270	End	7651
GI	uC-osflcyp033a04b1	Score	687
Exons	7270..7651		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	55148	Seq. ID	OJ000112_05.0426.C12
Gene No.	115566	Strand	+
Start	1	End	1392
Name	OJ000112_05.0426.C12.o1.np	Method	AAT/NAP
Start	1	End	1392
GI	7339707	Score	60
Exons	1..21, 1283..1392		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	55148	Seq. ID	OJ000112_05.0426.C12
Gene No.	115566	Strand	+
Start	1	End	1392
Name	OJ000112_05.0426.C12.o1.gs	Method	GENSCAN
Start	94	End	383
GI	none	Score	.86
Exons	94..383		

Seq. No.	55149	Seq. ID	OJ000112_05.0426.C13
Gene No.	115567	Strand	-
Start	209	End	443
Name	OJ000112_05.0426.C13.o1.gs	Method	GENSCAN
Start	209	End	443
GI	none	Score	.74
Exons	209..443		

Seq. No.	55150	Seq. ID	OJ000112_05.0426.C14
Gene No.	115568	Strand	
Start	700	End	990
Name	OJ000112_05.0426.C14.o3.tm	Method	TBLASTX:Maize
Start	700	End	990
GI	none	Score	67
Exons	700..795, 796..948, 802..990, 878..985		

Seq. No.	55150	Seq. ID	OJ000112_05.0426.C14
Gene No.	115569	Strand	
Start	1069	End	2138
Name	OJ000112_05.0426.C14.o2.tw	Method	TBLASTX:Wheat
Start	1069	End	1438
GI	none	Score	155
Exons	1069..1218, 1220..1438		

Seq. No.	55150	Seq. ID	OJ000112_05.0426.C14

Gene No.	115569	Strand	
Start	1069	End	2138
Name	OJ000112_05.0426.C14.o2.tm	Method	TBLASTX:Maize
Start	1162	End	1634
GI	none	Score	61
Exons	1162..1218, 1163..1222, 1262..1633, 1266..1301, 1416..1634		

Seq. No.	55150	Seq. ID	OJ000112_05.0426.C14
Gene No.	115569	Strand	
Start	1069	End	2138
Name	OJ000112_05.0426.C14.o1.tw	Method	TBLASTX:Wheat
Start	1532	End	2083
GI	none	Score	63
Exons	1532..1648, 1676..1714, 1721..2083, 1779..1874, 1859..1936		

Seq. No.	55150	Seq. ID	OJ000112_05.0426.C14
Gene No.	115569	Strand	
Start	1069	End	2138
Name	OJ000112_05.0426.C14.o1.ts	Method	TBLASTX:Soybean
Start	1706	End	2117
GI	none	Score	97
Exons	1706..1891, 1880..2107, 1908..2117		

Seq. No.	55150	Seq. ID	OJ000112_05.0426.C14
Gene No.	115569	Strand	
Start	1069	End	2138
Name	OJ000112_05.0426.C14.o1.tm	Method	TBLASTX:Maize
Start	1856	End	2138
GI	none	Score	129
Exons	1856..2137, 1859..2104, 1899..2138		

Seq. No.	55151	Seq. ID	OJ000112_05.0426.C15
Gene No.	115570	Strand	+
Start	5992	End	8074
Name	OJ000112_05.0426.C15.o2.tm	Method	TBLASTX:Maize
Start	3	End	272
GI	none	Score	119
Exons	3..137, 4..264, 136..189, 192..272		

Seq. No.	55151	Seq. ID	OJ000112_05.0426.C15
Gene No.	115570	Strand	+
Start	5992	End	8074
Name	OJ000112_05.0426.C15.o3.tw	Method	TBLASTX:Wheat
Start	33	End	311
GI	none	Score	168
Exons	33..137, 37..288, 136..213, 195..311		

Seq. No.	55151	Seq. ID	OJ000112_05.0426.C15
Gene No.	115570	Strand	+
Start	5992	End	8074
Name	OJ000112_05.0426.C15.o2.tw	Method	TBLASTX:Wheat
Start	640	End	978
GI	none	Score	89
Exons	640..978, 641..904		

Seq. No.	55151	Seq. ID	OJ000112_05.0426.C15
Gene No.	115570	Strand	+

Start	5992	End	8074
Name	OJ000112_05.0426.C15.o2.gs	Method	GENSCAN
Start	5992	End	7919
GI	none	Score	.59
Exons	5992..6206, 6745..6918, 7159..7919		

Seq. No.	55151	Seq. ID	OJ000112_05.0426.C15
Gene No.	115570	Strand	+
Start	5992	End	8074
Name	OJ000112_05.0426.C15.o1.tw	Method	TBLASTX:Wheat
Start	7156	End	7553
GI	none	Score	114
Exons	7156..7254, 7157..7291, 7268..7552, 7342..7539, 7371..7553		

Seq. No.	55151	Seq. ID	OJ000112_05.0426.C15
Gene No.	115570	Strand	+
Start	5992	End	8074
Name	OJ000112_05.0426.C15.o2.np	Method	AAT/NAP
Start	7262	End	8074
GI	6630696	Score	1331
Exons	7262..8074		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	55151	Seq. ID	OJ000112_05.0426.C15
Gene No.	115570	Strand	+
Start	5992	End	8074
Name	OJ000112_05.0426.C15.o1.tm	Method	TBLASTX:Maize
Start	7304	End	7614
GI	none	Score	316
Exons	7304..7612, 7351..7614		

Seq. No.	55152	Seq. ID	OJ000112_05.0426.C16
Gene No.	115571	Strand	+
Start	1	End	1984
Name	OJ000112_05.0426.C16.o1.np	Method	AAT/NAP
Start	1	End	1984
GI	6630696	Score	3205
Exons	1..1984		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	55152	Seq. ID	OJ000112_05.0426.C16
Gene No.	115571	Strand	+
Start	1	End	1984
Name	OJ000112_05.0426.C16.o2.tm	Method	TBLASTX:Maize
Start	5	End	278
GI	none	Score	228
Exons	5..154, 6..161, 7..174, 211..276, 219..278		

Seq. No.	55152	Seq. ID	OJ000112_05.0426.C16
Gene No.	115571	Strand	+
Start	1	End	1984
Name	OJ000112_05.0426.C16.o3.tm	Method	TBLASTX:Maize
Start	394	End	826

GI	none	Score	68
Exons	394..504, 500..826, 643..819		
Seq. No.	55152	Seq. ID	OJ000112_05.0426.C16
Gene No.	115571	Strand	+
Start	1	End	1984
Name	OJ000112_05.0426.C16.o3.tw	Method	TBLASTX:Wheat
Start	474	End	661
GI	none	Score	37
Exons	474..515, 498..635, 499..660, 500..661		
Seq. No.	55152	Seq. ID	OJ000112_05.0426.C16
Gene No.	115571	Strand	+
Start	1	End	1984
Name	OJ000112_05.0426.C16.o1.gs	Method	GENSCAN
Start	479	End	1980
GI	none	Score	.64
Exons	479..780, 1000..1361, 1400..1980		
Seq. No.	55152	Seq. ID	OJ000112_05.0426.C16
Gene No.	115571	Strand	+
Start	1	End	1984
Name	OJ000112_05.0426.C16.o2.ts	Method	TBLASTX:Soybean
Start	614	End	1012
GI	none	Score	203
Exons	614..835, 616..828, 839..1012		
Seq. No.	55152	Seq. ID	OJ000112_05.0426.C16
Gene No.	115571	Strand	+
Start	1	End	1984
Name	OJ000112_05.0426.C16.o1.tw	Method	TBLASTX:Wheat
Start	662	End	1416
GI	none	Score	831
Exons	662..1369, 670..1368, 1369..1416		
Seq. No.	55152	Seq. ID	OJ000112_05.0426.C16
Gene No.	115571	Strand	+
Start	1	End	1984
Name	OJ000112_05.0426.C16.o1.ts	Method	TBLASTX:Soybean
Start	1384	End	1800
GI	5509260	Score	357
Exons	1384..1800, 1431..1592, 1623..1655		
GI Descrip.	-		
Seq. No.	55152	Seq. ID	OJ000112_05.0426.C16
Gene No.	115571	Strand	+
Start	1	End	1984
Name	OJ000112_05.0426.C16.o1.tc	Method	TBLASTX:Cress
Start	1429	End	1689
GI	none	Score	287
Exons	1429..1689, 1431..1601		
Seq. No.	55152	Seq. ID	OJ000112_05.0426.C16
Gene No.	115571	Strand	+
Start	1	End	1984
Name	OJ000112_05.0426.C16.o1.tm	Method	TBLASTX:Maize
Start	1470	End	1935

GI	none	Score	341
Exons	1470..1601, 1471..1935, 1606..1686, 1722..1832		

Seq. No.	55152	Seq. ID	OJ000112_05.0426.C16
Gene No.	115571	Strand	+
Start	1	End	1984
Name	OJ000112_05.0426.C16.o2.tw	Method	TBLASTX:Wheat
Start	1471	End	1983
GI	none	Score	304
Exons	1471..1815, 1488..1655, 1810..1983, 1884..1982		

Seq. No.	55153	Seq. ID	OJ000112_05.0426.C17
Gene No.	115572	Strand	+
Start	1	End	85
Name	OJ000112_05.0426.C17.o1.np	Method	AAT/NAP
Start	1	End	85
GI	6630696	Score	115
Exons	1..85		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	55153	Seq. ID	OJ000112_05.0426.C17
Gene No.	115573	Strand	+
Start	1203	End	1335
Name	OJ000112_05.0426.C17.o1.gs	Method	GENSCAN
Start	1203	End	1335
GI	none	Score	.71
Exons	1203..1335		

Seq. No.	55154	Seq. ID	OJ000112_05.0426.C18
Gene No.	115574	Strand	-
Start	433	End	5540
Name	OJ000112_05.0426.C18.o1.gs	Method	GENSCAN
Start	433	End	5130
GI	none	Score	.43
Exons	433..618, 892..952, 1041..1151, 1230..1481, 1562..1762, 1901..2030, 2611..2731, 2781..2916, 3137..3263, 3985..4316, 4441..4623, 4792..4857, 5090..5130		

Seq. No.	55154	Seq. ID	OJ000112_05.0426.C18
Gene No.	115574	Strand	-
Start	433	End	5540
Name	OJ000112_05.0426.C18.o2.np	Method	AAT/NAP
Start	2417	End	5268
GI	6539570	Score	99
Exons	2417..2443, 4792..4857, 5086..5268		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	55154	Seq. ID	OJ000112_05.0426.C18
Gene No.	115574	Strand	-
Start	433	End	5540
Name	OJ000112_05.0426.C18.o1.np	Method	AAT/NAP
Start	3861	End	5540
GI	4680203	Score	366
Exons	3861..4728, 5517..5540		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	55154	Seq. ID	OJ000112_05.0426.C18
Gene No.	115574	Strand	-
Start	433	End	5540
Name	OJ000112_05.0426.C18.o1.tw	Method	TBLASTX:Wheat
Start	4001	End	4724
GI	none	Score	39
Exons	4001..4069, 4022..4087, 4076..4180, 4083..4175, 4208..4297, 4291..4473, 4296..4472, 4494..4724		

Seq. No.	55154	Seq. ID	OJ000112_05.0426.C18
Gene No.	115574	Strand	-
Start	433	End	5540
Name	OJ000112_05.0426.C18.o1.tm	Method	TBLASTX:Maize
Start	4308	End	4598
GI	none	Score	50
Exons	4308..4424, 4309..4395, 4317..4460, 4411..4536, 4428..4598, 4429..4581		

Seq. No.	55154	Seq. ID	OJ000112_05.0426.C18
Gene No.	115574	Strand	-
Start	433	End	5540
Name	OJ000112_05.0426.C18.o3.np	Method	AAT/NAP
Start	5395	End	5540
GI	6630699	Score	76
Exons	5395..5540		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	55155	Seq. ID	OJ000112_05.0426.C19
Gene No.	115575	Strand	+
Start	1	End	2614
Name	OJ000112_05.0426.C19.o1.np	Method	AAT/NAP
Start	1	End	2611
GI	5922620	Score	470
Exons	1..169, 479..512, 623..948, 985..1069, 2481..2611		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6016853|dbj|BAA85196.1| (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	55155	Seq. ID	OJ000112_05.0426.C19
Gene No.	115575	Strand	+
Start	1	End	2614
Name	OJ000112_05.0426.C19.o1.gs	Method	GENSCAN
Start	915	End	2614
GI	none	Score	.53
Exons	915..1069, 1843..1980, 2407..2614		

Seq. No.	55155	Seq. ID	OJ000112_05.0426.C19
Gene No.	115576	Strand	-
Start	2750	End	2975
Name	OJ000112_05.0426.C19.o2.np	Method	AAT/NAP
Start	2750	End	2975
GI	6630699	Score	92

Exons	2750..2830, 2859..2975		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein [Oryza sativa]		
Seq. No.	55155	Seq. ID	OJ000112_05.0426.C19
Gene No.	115576	Strand	-
Start	2750	End	2975
Name	OJ000112_05.0426.C19.o3.np	Method	AAT/NAP
Start	2780	End	2975
GI	6742729	Score	101
Exons	2780..2975		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		
Seq. No.	55156	Seq. ID	OJ000112_05.0426.C20
Gene No.	115577	Strand	-
Start	213	End	3477
Name	OJ000112_05.0426.C20.o1.np	Method	AAT/NAP
Start	213	End	3477
GI	100484	Score	981
Exons	213..240, 1518..1925, 1992..3477		
GI Descrip.	hypothetical protein - garden snapdragon		
Seq. No.	55156	Seq. ID	OJ000112_05.0426.C20
Gene No.	115577	Strand	-
Start	213	End	3477
Name	OJ000112_05.0426.C20.o1.tw	Method	TBLASTX:Wheat
Start	2350	End	2665
GI	none	Score	188
Exons	2350..2664, 2351..2665		
Seq. No.	55156	Seq. ID	OJ000112_05.0426.C20
Gene No.	115577	Strand	-
Start	213	End	3477
Name	OJ000112_05.0426.C20.o1.tm	Method	TBLASTX:Maize
Start	2419	End	2892
GI	none	Score	127
Exons	2419..2718, 2455..2634, 2477..2641, 2827..2892		
Seq. No.	55156	Seq. ID	OJ000112_05.0426.C20
Gene No.	115577	Strand	-
Start	213	End	3477
Name	OJ000112_05.0426.C20.o1.tc	Method	TBLASTX:Cress
Start	2437	End	2778
GI	none	Score	53
Exons	2437..2778, 2443..2643, 2633..2770		
Seq. No.	55156	Seq. ID	OJ000112_05.0426.C20
Gene No.	115577	Strand	-
Start	213	End	3477
Name	OJ000112_05.0426.C20.o1.ts	Method	TBLASTX:Soybean
Start	2518	End	2949
GI	none	Score	116
Exons	2518..2787, 2527..2700, 2822..2944, 2827..2949		
Seq. No.	55156	Seq. ID	OJ000112_05.0426.C20
Gene No.	115577	Strand	-

Start	213	End	3477
Name	OJ000112_05.0426.C20.o2.tw	Method	TBLASTX:Wheat
Start	2667	End	2997
GI	none	Score	51
Exons	2667..2753, 2668..2772, 2671..2778, 2678..2782, 2773..2997, 2801..2995		

Seq. No.	55157	Seq. ID	OJ000112_05.0426.C21
Gene No.	115578	Strand	+
Start	231	End	599
Name	OJ000112_05.0426.C21.o1.gs	Method	GENSCAN
Start	231	End	599
GI	none	Score	.67
Exons	231..323, 513..599		

Seq. No.	55157	Seq. ID	OJ000112_05.0426.C21
Gene No.	115579	Strand	+
Start	3170	End	3985
Name	OJ000112_05.0426.C21.o3.gs	Method	GENSCAN
Start	3170	End	3985
GI	none	Score	.67
Exons	3170..3232, 3271..3653, 3793..3985		

Seq. No.	55157	Seq. ID	OJ000112_05.0426.C21
Gene No.	115580	Strand	+
Start	5209	End	7425
Name	OJ000112_05.0426.C21.o1.np	Method	AAT/NAP
Start	4944	End	7398
GI	2462734	Score	1509
Exons	4944..5037, 5291..6732, 6994..7398		
GI Descrip.	(AC002292) similar to "Mx" GTP-binding proteins [Arabidopsis thaliana]		

Seq. No.	55157	Seq. ID	OJ000112_05.0426.C21
Gene No.	115580	Strand	+
Start	5209	End	7425
Name	OJ000112_05.0426.C21.o4.gs	Method	GENSCAN
Start	5209	End	7425
GI	none	Score	.92
Exons	5209..6858, 6994..7425		

Seq. No.	55157	Seq. ID	OJ000112_05.0426.C21
Gene No.	115580	Strand	+
Start	5209	End	7425
Name	OJ000112_05.0426.C21.o1.tc	Method	TBLASTX:Cress
Start	5392	End	5949
GI	none	Score	85
Exons	5392..5460, 5404..5532, 5637..5759, 5638..5949		

Seq. No.	55157	Seq. ID	OJ000112_05.0426.C21
Gene No.	115580	Strand	+
Start	5209	End	7425
Name	OJ000112_05.0426.C21.o1.ts	Method	TBLASTX:Soybean
Start	5392	End	5949
GI	none	Score	84
Exons	5392..5460, 5404..5517, 5638..5949		

Seq. No.	55157	Seq. ID	OJ000112_05.0426.C21
Gene No.	115580	Strand	+
Start	5209	End	7425
Name	OJ000112_05.0426.C21.o1.tm	Method	TBLASTX:Maize
Start	5637	End	5972
GI	none	Score	205
Exons	5637..5972, 5638..5949		

Seq. No.	55157	Seq. ID	OJ000112_05.0426.C21
Gene No.	115580	Strand	+
Start	5209	End	7425
Name	OJ000112_05.0426.C21.o2.ts	Method	TBLASTX:Soybean
Start	6583	End	6825
GI	none	Score	184
Exons	6583..6825		

Seq. No.	55158	Seq. ID	OJ000112_05.0426.C24
Gene No.	115581	Strand	-
Start	1	End	866
Name	OJ000112_05.0426.C24.o1.np	Method	AAT/NAP
Start	1	End	866
GI	7494310	Score	101
Exons	1..19, 635..866		
GI Descrip.	hypothetical protein PFB0680w - malaria parasite (Plasmodium falciparum) gi|3845248|gb|AAC71925.1| (AE001410) hypothetical protein [Plasmodium falciparum]		

Seq. No.	55158	Seq. ID	OJ000112_05.0426.C24
Gene No.	115581	Strand	-
Start	1	End	866
Name	OJ000112_05.0426.C24.o1.gs	Method	GENSCAN
Start	503	End	779
GI	none	Score	.54
Exons	503..551, 629..779		

Seq. No.	55159	Seq. ID	OJ000112_05.0426.C25
Gene No.	115582	Strand	-
Start	1	End	1000
Name	OJ000112_05.0426.C25.o1.np	Method	AAT/NAP
Start	1	End	544
GI	4680203	Score	516
Exons	1..544		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	55159	Seq. ID	OJ000112_05.0426.C25
Gene No.	115582	Strand	-
Start	1	End	1000
Name	OJ000112_05.0426.C25.o1.tw	Method	TBLASTX:Wheat
Start	3	End	198
GI	none	Score	90
Exons	3..98, 4..108, 5..100, 91..198		

Seq. No.	55159	Seq. ID	OJ000112_05.0426.C25
Gene No.	115582	Strand	-
Start	1	End	1000
Name	OJ000112_05.0426.C25.o1.gs	Method	GENSCAN
Start	90	End	549

GI	none	Score	.66
Exons	90..549		

Seq. No.	55159	Seq. ID	OJ000112_05.0426.C25
Gene No.	115582	Strand	-
Start	1	End	1000
Name	OJ000112_05.0426.C25.o1.gp	Method	AAT/GAP
Start	412	End	1000
GI	2310235	Score	299
Exons	412..549, 963..1000		
GI Descrip.	5852182/emb|CAB55420.1| 9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]		

Seq. No.	55160	Seq. ID	OJ000112_05.0426.C26
Gene No.	115583	Strand	-
Start	1	End	534
Name	OJ000112_05.0426.C26.o1.np	Method	AAT/NAP
Start	1	End	533
GI	2462911	Score	220
Exons	1..21, 251..327, 431..533		
GI Descrip.	(Z83832) UDP-glucose:sterol glucosyltransferase [Avena sativa]		

Seq. No.	55160	Seq. ID	OJ000112_05.0426.C26
Gene No.	115583	Strand	-
Start	1	End	534
Name	OJ000112_05.0426.C26.o1.tm	Method	TBLASTX:Maize
Start	245	End	534
GI	none	Score	115
Exons	245..328, 249..326, 250..327, 432..533, 433..534		

Seq. No.	55160	Seq. ID	OJ000112_05.0426.C26
Gene No.	115583	Strand	-
Start	1	End	534
Name	OJ000112_05.0426.C26.o1.ts	Method	TBLASTX:Soybean
Start	245	End	534
GI	none	Score	84
Exons	245..328, 249..326, 250..348, 435..533, 436..534, 436..534		

Seq. No.	55160	Seq. ID	OJ000112_05.0426.C26
Gene No.	115583	Strand	-
Start	1	End	534
Name	OJ000112_05.0426.C26.o1.gs	Method	GENSCAN
Start	431	End	512
GI	none	Score	.81
Exons	431..512		

Seq. No.	55161	Seq. ID	OJ000112_05.0426.C27
Gene No.	115584	Strand	+
Start	952	End	1931
Name	OJ000112_05.0426.C27.o1.gs	Method	GENSCAN
Start	952	End	1931
GI	none	Score	.44
Exons	952..1036, 1714..1931		

Seq. No.	55161	Seq. ID	OJ000112_05.0426.C27
Gene No.	115585	Strand	-
Start	1	End	647

Name	OJ000112_05.0426.C27.o1.np	Method	AAT/NAP
Start	1	End	640
GI	2462911	Score	246
Exons	1..29, 463..640		
GI Descrip.	(Z83832) UDP-glucose:sterol glucosyltransferase [Avena sativa]		

Seq. No.	55161	Seq. ID	OJ000112_05.0426.C27
Gene No.	115585	Strand	-
Start	1	End	647
Name	OJ000112_05.0426.C27.o1.ts	Method	TBLASTX:Soybean
Start	455	End	640
GI	none	Score	135
Exons	455..640, 464..640		

Seq. No.	55161	Seq. ID	OJ000112_05.0426.C27
Gene No.	115585	Strand	-
Start	1	End	647
Name	OJ000112_05.0426.C27.o1.tc	Method	TBLASTX:Cress
Start	459	End	647
GI	none	Score	111
Exons	459..554, 464..640, 464..643, 528..647		

Seq. No.	55161	Seq. ID	OJ000112_05.0426.C27
Gene No.	115585	Strand	-
Start	1	End	647
Name	OJ000112_05.0426.C27.o1.tm	Method	TBLASTX:Maize
Start	459	End	647
GI	none	Score	127
Exons	459..554, 464..640, 464..643, 522..647		

Seq. No.	55162	Seq. ID	OJ000112_05.0426.C28
Gene No.	115586	Strand	+
Start	1348	End	1626
Name	OJ000112_05.0426.C28.o1.gs	Method	GENSCAN
Start	1348	End	1626
GI	none	Score	.45
Exons	1348..1626		

Seq. No.	55163	Seq. ID	OJ000112_05.0426.C29
Gene No.	115587	Strand	+
Start	828	End	972
Name	OJ000112_05.0426.C29.o1.gs	Method	GENSCAN
Start	828	End	972
GI	none	Score	.45
Exons	828..972		

Seq. No.	55164	Seq. ID	OJ000112_05.0426.C30
Gene No.	115588	Strand	+
Start	136	End	765
Name	OJ000112_05.0426.C30.o1.gs	Method	GENSCAN
Start	136	End	765
GI	none	Score	.64
Exons	136..393, 399..515, 679..765		

Seq. No.	55165	Seq. ID	OJ000112_05.0426.C31
Gene No.	115589	Strand	+
Start	1	End	857

Name	OJ000112_05.0426.C31.o1.np	Method	AAT/NAP
Start	1	End	857
GI	5852180	Score	53
Exons	1..120, 821..857		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	55165	Seq. ID	OJ000112_05.0426.C31
Gene No.	115589	Strand	+
Start	1	End	857
Name	OJ000112_05.0426.C31.o2.np	Method	AAT/NAP
Start	1	End	408
GI	4680186	Score	341
Exons	1..23, 192..408		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	55165	Seq. ID	OJ000112_05.0426.C31
Gene No.	115589	Strand	+
Start	1	End	857
Name	OJ000112_05.0426.C31.o1.gs	Method	GENSCAN
Start	301	End	718
GI	none	Score	.72
Exons	301..361, 667..718		

Seq. No.	55165	Seq. ID	OJ000112_05.0426.C31
Gene No.	115590	Strand	-
Start	1	End	341
Name	OJ000112_05.0426.C31.o1.gp	Method	AAT/GAP
Start	1	End	341
GI	uC-osflcyp033a04b1	Score	622
Exons	1..341		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	55166	Seq. ID	OJ000112_04.0426.C1
Gene No.	115591	Strand	+
Start	1	End	2782
Name	OJ000112_04.0426.C1.o1.np	Method	AAT/NAP
Start	1	End	2782
GI	4680186	Score	396
Exons	1..257, 1857..2008, 2610..2782		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	55166	Seq. ID	OJ000112_04.0426.C1
Gene No.	115592	Strand	-
Start	1028	End	3180
Name	OJ000112_04.0426.C1.o1.gs	Method	GENSCAN
Start	1028	End	3180
GI	none	Score	.75
Exons	1028..1187, 1835..1929, 2626..2684, 3037..3180		

Seq. No.	55166	Seq. ID	OJ000112_04.0426.C1
Gene No.	115592	Strand	-
Start	1028	End	3180
Name	OJ000112_04.0426.C1.o1.gp	Method	AAT/GAP
Start	2156	End	2581
GI	4878407	Score	655
Exons	2156..2581		

GI Descrip.	6069643/dbj|AP000616.1|AP000616 1.0e-152 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12		
Seq. No.	55167	Seq. ID	OJ000112_04.0426.C2
Gene No.	115593	Strand	+
Start	1	End	26435
Name	OJ000112_04.0426.C2.o1.np	Method	AAT/NAP
Start	1	End	25644
GI	4680184	Score	226
Exons	1..405, 571..1077, 1124..1464, 8056..8289, 14985..15166, 25567..25644		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	55167	Seq. ID	OJ000112_04.0426.C2
Gene No.	115593	Strand	+
Start	1	End	26435
Name	OJ000112_04.0426.C2.o1.gs	Method	GENSCAN
Start	213	End	1918
GI	none	Score	.52
Exons	213..374, 897..1033, 1744..1918		

Seq. No.	55167	Seq. ID	OJ000112_04.0426.C2
Gene No.	115593	Strand	+
Start	1	End	26435
Name	OJ000112_04.0426.C2.o3.gs	Method	GENSCAN
Start	14631	End	15792
GI	none	Score	.94
Exons	14631..15242, 15529..15609, 15688..15792		

Seq. No.	55167	Seq. ID	OJ000112_04.0426.C2
Gene No.	115593	Strand	+
Start	1	End	26435
Name	OJ000112_04.0426.C2.o4.gs	Method	GENSCAN
Start	16941	End	20741
GI	none	Score	.47
Exons	16941..17012, 20023..20115, 20733..20741		

Seq. No.	55167	Seq. ID	OJ000112_04.0426.C2
Gene No.	115593	Strand	+
Start	1	End	26435
Name	OJ000112_04.0426.C2.o5.gs	Method	GENSCAN
Start	22080	End	24525
GI	none	Score	.85
Exons	22080..23309, 23715..23814, 23859..24062, 24467..24525		

Seq. No.	55167	Seq. ID	OJ000112_04.0426.C2
Gene No.	115593	Strand	+
Start	1	End	26435
Name	OJ000112_04.0426.C2.o2.np	Method	AAT/NAP
Start	22131	End	23138
GI	6523100	Score	459
Exons	22131..23138		
GI Descrip.	(AL133315) putative protein [Arabidopsis thaliana]		

Seq. No.	55167	Seq. ID	OJ000112_04.0426.C2
Gene No.	115593	Strand	+
Start	1	End	26435

Name	OJ000112_04.0426.C2.o6.gs	Method	GENSCAN
Start	25195	End	26435
GI	none	Score	.41
Exons	25195..25386, 25857..25926, 26230..26435		

Seq. No.	55167	Seq. ID	OJ000112_04.0426.C2
Gene No.	115594	Strand	+
Start	26564	End	27848
Name	OJ000112_04.0426.C2.o7.gs	Method	GENSCAN
Start	26564	End	27848
GI	none	Score	.66
Exons	26564..26670, 26693..27848		

Seq. No.	55167	Seq. ID	OJ000112_04.0426.C2
Gene No.	115595	Strand	+
Start	29126	End	31313
Name	OJ000112_04.0426.C2.o8.gs	Method	GENSCAN
Start	29126	End	31313
GI	none	Score	.53
Exons	29126..29171, 29257..29380, 29403..29691, 29764..29880, 29894..30112, 31197..31313		

Seq. No.	55167	Seq. ID	OJ000112_04.0426.C2
Gene No.	115595	Strand	+
Start	29126	End	31313
Name	OJ000112_04.0426.C2.o3.np	Method	AAT/NAP
Start	29448	End	29705
GI	7448884	Score	78
Exons	29448..29705		
GI Descrip.	probable lipase - Mycobacterium tuberculosis (strain H37RV) gi|1542908|emb|CAB02181.1| (Z80108) lipI [Mycobacterium tuberculosis]		

Seq. No.	55167	Seq. ID	OJ000112_04.0426.C2
Gene No.	115596	Strand	+
Start	36176	End	40818
Name	OJ000112_04.0426.C2.o1.gp	Method	AAT/GAP
Start	35372	End	35457
GI	5867_1.R1084	Score	115
Exons	35372..35457		
GI Descrip.	'464986/sp|P35132|UBC9_ARATH 5.0e-58 UBIQUITIN-CONJUGATING ENZYME E2-17 KD 9 (UBIQUITIN-PROTEIN LIGASE 9) (UBIQUITIN CARRIER PROTEIN 9) (UBCAT4B) >gi_421857_pir__S32674 ubiquitin--protein ligase (EC 6.3.2.19) UBC9 - Arabidopsis thaliana >gi_297884_emb_CAA78714_ (Z14990) ubiquitin conjugating enzyme homolog [Arabidopsis thaliana] >gi_349211 (L00639) ubiquitin conjugating enzyme [Arabidopsis'		

Seq. No.	55167	Seq. ID	OJ000112_04.0426.C2
Gene No.	115596	Strand	+
Start	36176	End	40818
Name	OJ000112_04.0426.C2.o9.gs	Method	GENSCAN
Start	36176	End	40818
GI	none	Score	.77
Exons	36176..36213, 37257..37494, 38524..38753, 39320..39500, 40218..40368, 40751..40818		

Seq. No.	55167	Seq. ID	OJ000112_04.0426.C2
Gene No.	115597	Strand	-
Start	2375	End	9363
Name	OJ000112_04.0426.C2.o2.gs	Method	GENSCAN
Start	2375	End	9363
GI	none	Score	.73
Exons	2375..3157, 3787..4335, 5959..6058, 7499..9363		

Seq. No.	55167	Seq. ID	OJ000112_04.0426.C2
Gene No.	115598	Strand	
Start	22134	End	30013
Name	OJ000112_04.0426.C2.o1.tc	Method	TBLASTX:Cress
Start	22134	End	30013
GI	none	Score	91
Exons	22134..22229, 22143..22232, 22230..22319, 22356..22508, 22568..22645, 22569..22661, 23013..23138, 26620..26670, 26711..26782, 26712..26780, 26817..26969, 26819..26887, 27033..27152, 27053..27151, 27189..27218, 29569..29712, 29746..29793, 29939..30013		

Seq. No.	55167	Seq. ID	OJ000112_04.0426.C2
Gene No.	115598	Strand	
Start	22134	End	30013
Name	OJ000112_04.0426.C2.o1.ts	Method	TBLASTX:Soybean
Start	22139	End	29793
GI	none	Score	73
Exons	22139..22237, 22140..22232, 22352..22426, 22356..22520, 22569..22661, 26715..26780, 26817..26987, 27033..27131, 27189..27242, 29511..29552, 29572..29652, 29654..29704, 29746..29793		

Seq. No.	55167	Seq. ID	OJ000112_04.0426.C2
Gene No.	115598	Strand	
Start	22134	End	30013
Name	OJ000112_04.0426.C2.o1.tm	Method	TBLASTX:Maize
Start	22248	End	29822
GI	none	Score	35
Exons	22248..22274, 22350..22445, 22479..22520, 22566..22661, 22568..22660, 26700..26780, 26811..26906, 26940..26987, 27033..27131, 27056..27139, 27147..27221, 29452..29505, 29514..29555, 29620..29652, 29649..29705, 29654..29698, 29731..29799, 29748..29822		

Seq. No.	55168	Seq. ID	OJ000112_04.0426.C3
Gene No.	115599	Strand	+
Start	21526	End	29968
Name	OJ000112_04.0426.C3.o4.gs	Method	GENSCAN
Start	21526	End	29890
GI	none	Score	.76
Exons	21526..21613, 21703..21723, 21980..22111, 22245..22372, 22457..22741, 22929..23059, 26147..26241, 26975..27049, 27872..28020, 28305..28397, 29163..29228, 29323..29405, 29480..29592, 29844..29890		

Seq. No.	55168	Seq. ID	OJ000112_04.0426.C3
Gene No.	115599	Strand	+
Start	21526	End	29968

Name	OJ000112_04.0426.C3.o3.np	Method	AAT/NAP
Start	21982	End	23053
GI	5803253	Score	203
Exons	21982..22111, 22272..22372, 22457..22741, 22929..23053		
GI Descrip.	(AP000399) ESTs AU068856(C50756),AU077979(C61370) correspond to a region of the predicted gene; similar to serine protease (AF097709) [Oryza sativa]		

Seq. No.	55168	Seq. ID	OJ000112_04.0426.C3
Gene No.	115599	Strand	+
Start	21526	End	29968
Name	OJ000112_04.0426.C3.o3.gp	Method	AAT/GAP
Start	22582	End	25366
GI	LIB3434-005-P1-K1-F1	Score	738
Exons	22582..22741, 22929..23059, 25238..25366		
GI Descrip.	'5803253/dbj|BAA83563.1| 7.0e-17 (AP000399) ESTs AU068856(C50756),AU077979(C61370) correspond to a region of the predicted gene; similar to serine protease (AF097709) [Oryza sativa]'		

Seq. No.	55168	Seq. ID	OJ000112_04.0426.C3
Gene No.	115599	Strand	+
Start	21526	End	29968
Name	OJ000112_04.0426.C3.o4.gp	Method	AAT/GAP
Start	29188	End	29968
GI	none	Score	648
Exons	29188..29228, 29323..29405, 29480..29592, 29844..29968		

Seq. No.	55168	Seq. ID	OJ000112_04.0426.C3
Gene No.	115600	Strand	+
Start	30328	End	33297
Name	OJ000112_04.0426.C3.o4.np	Method	AAT/NAP
Start	30328	End	33297
GI	4417288	Score	349
Exons	30328..30537, 30872..30948, 31107..31181, 31376..31444, 31622..31698, 31964..32056, 33117..33297		
GI Descrip.	(AC007019) unknown protein [Arabidopsis thaliana]		

Seq. No.	55168	Seq. ID	OJ000112_04.0426.C3
Gene No.	115600	Strand	+
Start	30328	End	33297
Name	OJ000112_04.0426.C3.o5.gp	Method	AAT/GAP
Start	30558	End	30806
GI	2310440	Score	486
Exons	30558..30806		

Seq. No.	55168	Seq. ID	OJ000112_04.0426.C3
Gene No.	115600	Strand	+
Start	30328	End	33297
Name	OJ000112_04.0426.C3.o6.gp	Method	AAT/GAP
Start	31971	End	33040
GI	none	Score	383
Exons	31971..32052, 32902..33040		

Seq. No.	55168	Seq. ID	OJ000112_04.0426.C3
Gene No.	115601	Strand	-
Start	884	End	1576

Name	OJ000112_04.0426.C3.o1.gp	Method	AAT/GAP
Start	884	End	1576
GI	none	Score	889
Exons	884..925, 1016..1242, 1352..1576		

Seq. No.	55168	Seq. ID	OJ000112_04.0426.C3
Gene No.	115602	Strand	-
Start	5993	End	20656
Name	OJ000112_04.0426.C3.o2.gs	Method	GENSCAN
Start	5993	End	19186
GI	none	Score	.75
Exons	5993..6147, 6742..6933, 7237..7347, 7487..7689, 8607..8713, 10593..10658, 11240..11332, 14280..14378, 15023..15304, 15390..15523, 15621..15830, 15994..16036, 16220..16431, 16735..16907, 17785..18014, 18056..18125, 19128..19186		

Seq. No.	55168	Seq. ID	OJ000112_04.0426.C3
Gene No.	115602	Strand	-
Start	5993	End	20656
Name	OJ000112_04.0426.C3.o2.gp	Method	AAT/GAP
Start	10248	End	10451
GI	none	Score	179
Exons	10248..10352, 10423..10451		

Seq. No.	55168	Seq. ID	OJ000112_04.0426.C3
Gene No.	115602	Strand	-
Start	5993	End	20656
Name	OJ000112_04.0426.C3.o2.np	Method	AAT/NAP
Start	16509	End	20511
GI	6721516	Score	569
Exons	16509..16609, 17801..18149, 18563..18804, 20485..20511		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	55168	Seq. ID	OJ000112_04.0426.C3
Gene No.	115602	Strand	-
Start	5993	End	20656
Name	OJ000112_04.0426.C3.o3.gs	Method	GENSCAN
Start	19720	End	20656
GI	none	Score	.47
Exons	19720..19837, 20006..20423, 20587..20656		

Seq. No.	55168	Seq. ID	OJ000112_04.0426.C3
Gene No.	115603	Strand	-
Start	30218	End	32453
Name	OJ000112_04.0426.C3.o5.gs	Method	GENSCAN
Start	30218	End	32453
GI	none	Score	.94
Exons	30218..30598, 31127..31196, 31646..31727, 32408..32453		

Seq. No.	55169	Seq. ID	OJ000112_07.0426.C1
Gene No.	115604	Strand	+
Start	1968	End	6081
Name	OJ000112_07.0426.C1.o1.gs	Method	GENSCAN
Start	1968	End	5614
GI	none	Score	.45
Exons	1968..2091, 2505..2690, 2692..3018, 3355..3503, 3605..3695, 4231..4384, 4464..4512, 4691..4720, 4846..4960, 5081..5172,		

5268..5415, 5589..5614

Seq. No.	55169	Seq. ID	OJ000112_07.0426.C1
Gene No.	115604	Strand	+
Start	1968	End	6081
Name	OJ000112_07.0426.C1.o1.np	Method	AAT/NAP
Start	3411	End	6081
GI	601791	Score	920
Exons	3411..3515, 3604..3695, 4113..4139, 4231..4384, 4464..4512, 4846..4960, 5081..5172, 5268..5415, 5845..5909, 5984..6081		
GI Descrip.	(U16178) protein kinase [Arabidopsis thaliana]		

Seq. No.	55169	Seq. ID	OJ000112_07.0426.C1
Gene No.	115604	Strand	+
Start	1968	End	6081
Name	OJ000112_07.0426.C1.o1.tm	Method	TBLASTX:Maize
Start	3604	End	6079
GI	none	Score	156
Exons	3604..3696, 3605..3694, 4112..4141, 4116..4142, 4218..4379, 4229..4390, 4230..4385, 4465..4515, 4465..4512, 4816..4959, 4838..4966, 4846..4965, 5065..5172, 5071..5172, 5081..5206, 5265..5417, 5265..5417, 5266..5445, 5267..5431, 5837..5908, 5843..5908, 5844..5909, 5853..5909, 5984..6079, 5984..6076, 5985..6077		

Seq. No.	55169	Seq. ID	OJ000112_07.0426.C1
Gene No.	115604	Strand	+
Start	1968	End	6081
Name	OJ000112_07.0426.C1.o3.ts	Method	TBLASTX:Soybean
Start	3611	End	4390
GI	none	Score	103
Exons	3611..3685, 3622..3684, 4109..4138, 4115..4141, 4229..4390, 4230..4373		

Seq. No.	55169	Seq. ID	OJ000112_07.0426.C1
Gene No.	115604	Strand	+
Start	1968	End	6081
Name	OJ000112_07.0426.C1.o1.tc	Method	TBLASTX:Cress
Start	3623	End	6079
GI	none	Score	97
Exons	3623..3694, 4115..4141, 4117..4140, 4218..4361, 4230..4370, 4465..4515, 4465..4515, 4816..4959, 4839..4961, 4849..4965, 5062..5151, 5065..5181, 5082..5180, 5262..5417, 5275..5391, 5289..5414, 5291..5416, 5822..5908, 5844..5909, 5983..6057, 5984..6079		

Seq. No.	55169	Seq. ID	OJ000112_07.0426.C1
Gene No.	115604	Strand	+
Start	1968	End	6081
Name	OJ000112_07.0426.C1.o1.ts	Method	TBLASTX:Soybean
Start	4833	End	5411
GI	none	Score	189
Exons	4833..4961, 4834..4959, 5062..5154, 5065..5181, 5082..5180, 5267..5398, 5273..5410, 5274..5411		

Seq. No.	55169	Seq. ID	OJ000112_07.0426.C1
Gene No.	115604	Strand	+

Start	1968	End	6081
Name	OJ000112_07.0426.C1.o2.ts	Method	TBLASTX:Soybean
Start	5837	End	6076
GI	none	Score	121
Exons	5837..5905, 5844..5909, 5983..6069, 5984..6076, 5987..6070		

Seq. No.	55170	Seq. ID	OJ000112_07.0426.C2
Gene No.	115605	Strand	+
Start	1	End	720
Name	OJ000112_07.0426.C2.o1.np	Method	AAT/NAP
Start	1	End	489
GI	5915680	Score	122
Exons	1..69, 346..489		
GI Descrip.	PROTEIN KINASE AFC3 gi|642134|dbj|BAA08216| (D45355) protein kinase [Arabidopsis thaliana] gi|3063704|emb|CAA18595.1| (AL022537) protein kinase AME3 [Arabidopsis thaliana]		

Seq. No.	55170	Seq. ID	OJ000112_07.0426.C2
Gene No.	115605	Strand	+
Start	1	End	720
Name	OJ000112_07.0426.C2.o1.gp	Method	AAT/GAP
Start	315	End	720
GI	LIB3432-057-P1-K1-A7	Score	711
Exons	315..720		
GI Descrip.	'601791 1.0e-14 (U16178) protein kinase [Arabidopsis thaliana]'		

Seq. No.	55170	Seq. ID	OJ000112_07.0426.C2
Gene No.	115606	Strand	+
Start	3074	End	6078
Name	OJ000112_07.0426.C2.o2.gp	Method	AAT/GAP
Start	3012	End	3189
GI	33672_1.R1084	Score	316
Exons	3012..3189		
GI Descrip.	'4678328/emb|CAB41139.1| 8.0e-35 (AL049658) aldehyde dehydrogenase (NAD+)-like protein [Arabidopsis thaliana]'		

Seq. No.	55170	Seq. ID	OJ000112_07.0426.C2
Gene No.	115606	Strand	+
Start	3074	End	6078
Name	OJ000112_07.0426.C2.o2.gs	Method	GENSCAN
Start	3074	End	6078
GI	none	Score	.5
Exons	3074..3179, 5425..5581, 5614..5922, 5927..6078		

Seq. No.	55170	Seq. ID	OJ000112_07.0426.C2
Gene No.	115607	Strand	-
Start	870	End	2529
Name	OJ000112_07.0426.C2.o1.tm	Method	TBLASTX:Maize
Start	342	End	515
GI	none	Score	184
Exons	342..515, 346..507		

Seq. No.	55170	Seq. ID	OJ000112_07.0426.C2
Gene No.	115607	Strand	-
Start	870	End	2529
Name	OJ000112_07.0426.C2.o1.gs	Method	GENSCAN
Start	870	End	2529

GI	none	Score	.78
Exons	870..973, 1065..1240, 1270..1381, 1401..1695, 2488..2529		

Seq. No.	55171	Seq. ID	OJ000112_07.0426.C3
Gene No.	115608	Strand	+
Start	1601	End	3248
Name	OJ000112_07.0426.C3.o1.gs	Method	GENSCAN
Start	1601	End	3248
GI	none	Score	.55
Exons	1601..1643, 3067..3248		

Seq. No.	55171	Seq. ID	OJ000112_07.0426.C3
Gene No.	115608	Strand	+
Start	1601	End	3248
Name	OJ000112_07.0426.C3.o1.np	Method	AAT/NAP
Start	2045	End	3227
GI	7431450	Score	126
Exons	2045..2134, 2941..3227		
GI Descrip.	aldehyde dehydrogenase (NAD+) (EC 1.2.1.3) T17F15.130 - Arabidopsis thaliana gi|4678328|emb|CAB41139.1| (AL049658) aldehyde dehydrogenase (NAD+)-like protein [Arabidopsis thaliana]		

Seq. No.	55171	Seq. ID	OJ000112_07.0426.C3
Gene No.	115608	Strand	+
Start	1601	End	3248
Name	OJ000112_07.0426.C3.o1.ts	Method	TBLASTX:Soybean
Start	3044	End	3217
GI	none	Score	206
Exons	3044..3217, 3045..3206		

Seq. No.	55171	Seq. ID	OJ000112_07.0426.C3
Gene No.	115608	Strand	+
Start	1601	End	3248
Name	OJ000112_07.0426.C3.o1.tc	Method	TBLASTX:Cress
Start	3063	End	3224
GI	none	Score	211
Exons	3063..3224, 3065..3217		

Seq. No.	55171	Seq. ID	OJ000112_07.0426.C3
Gene No.	115608	Strand	+
Start	1601	End	3248
Name	OJ000112_07.0426.C3.o1.tm	Method	TBLASTX:Maize
Start	3063	End	3245
GI	none	Score	232
Exons	3063..3245, 3065..3205		

Seq. No.	55171	Seq. ID	OJ000112_07.0426.C3
Gene No.	115608	Strand	+
Start	1601	End	3248
Name	OJ000112_07.0426.C3.o1.gp	Method	AAT/GAP
Start	3064	End	3216
GI	33672_1.R1084	Score	241
Exons	3064..3216		
GI Descrip.	'4678328/emb|CAB41139.1| 8.0e-35 (AL049658) aldehyde dehydrogenase (NAD+)-like protein [Arabidopsis thaliana]'		

Seq. No.	55171	Seq. ID	OJ000112_07.0426.C3
Gene No.	115608	Strand	+
Start	1601	End	3248
Name	OJ000112_07.0426.C3.o1.tw	Method	TBLASTX:Wheat
Start	3065	End	3218
GI	none	Score	180
Exons	3065..3217, 3066..3218		

Seq. No.	55172	Seq. ID	OJ000112_07.0426.C4
Gene No.	115609	Strand	+
Start	1	End	1082
Name	OJ000112_07.0426.C4.o1.np	Method	AAT/NAP
Start	1	End	1082
GI	4586546	Score	453
Exons	1..115, 346..519, 626..763, 885..1082		
GI Descrip.	(AB016718) aldehyde dehydrogenase class 1 [Xenopus laevis]		

Seq. No.	55172	Seq. ID	OJ000112_07.0426.C4
Gene No.	115609	Strand	+
Start	1	End	1082
Name	OJ000112_07.0426.C4.o1.ts	Method	TBLASTX:Soybean
Start	2	End	1024
GI	none	Score	130
Exons	2..118, 343..420, 351..419, 623..766, 625..762, 882..1022, 884..1024		

Seq. No.	55172	Seq. ID	OJ000112_07.0426.C4
Gene No.	115609	Strand	+
Start	1	End	1082
Name	OJ000112_07.0426.C4.o1.tc	Method	TBLASTX:Cress
Start	26	End	1022
GI	none	Score	117
Exons	26..118, 343..420, 351..419, 623..766, 625..738, 882..932, 930..1022		

Seq. No.	55172	Seq. ID	OJ000112_07.0426.C4
Gene No.	115609	Strand	+
Start	1	End	1082
Name	OJ000112_07.0426.C4.o1.gs	Method	GENSCAN
Start	101	End	1028
GI	none	Score	.94
Exons	101..115, 346..369, 626..763, 885..1028		

Seq. No.	55172	Seq. ID	OJ000112_07.0426.C4
Gene No.	115609	Strand	+
Start	1	End	1082
Name	OJ000112_07.0426.C4.o1.tm	Method	TBLASTX:Maize
Start	343	End	1024
GI	none	Score	111
Exons	343..420, 343..417, 345..518, 487..519, 623..766, 625..765, 882..1022, 887..1024, 965..1024		

Seq. No.	55173	Seq. ID	OJ000112_07.0426.C6
Gene No.	115610	Strand	-
Start	323	End	2242
Name	OJ000112_07.0426.C6.o1.gs	Method	GENSCAN
Start	323	End	2151

GI	none	Score	.6
Exons	323..468, 1036..1087, 1622..1746, 1950..2151		

Seq. No.	55173	Seq. ID	OJ000112_07.0426.C6
Gene No.	115610	Strand	-
Start	323	End	2242
Name	OJ000112_07.0426.C6.o1.np	Method	AAT/NAP
Start	327	End	2242
GI	6453857	Score	272
Exons	327..469, 1043..1075, 1622..1714, 1936..2242		
GI Descrip.	(AC011717) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55174	Seq. ID	OJ000112_07.0426.C9
Gene No.	115611	Strand	+
Start	630	End	1139
Name	OJ000112_07.0426.C9.o1.gs	Method	GENSCAN
Start	630	End	1139
GI	none	Score	.98
Exons	630..1139		

Seq. No.	55174	Seq. ID	OJ000112_07.0426.C9
Gene No.	115612	Strand	-
Start	2459	End	3052
Name	OJ000112_07.0426.C9.o2.gs	Method	GENSCAN
Start	2459	End	3052
GI	none	Score	.63
Exons	2459..2543, 2925..3052		

Seq. No.	55175	Seq. ID	OJ000112_07.0426.C10
Gene No.	115613	Strand	+
Start	6426	End	9758
Name	OJ000112_07.0426.C10.o3.gs	Method	GENSCAN
Start	6426	End	9758
GI	none	Score	.57
Exons	6426..6449, 6891..7085, 7697..7929, 9614..9758		

Seq. No.	55175	Seq. ID	OJ000112_07.0426.C10
Gene No.	115614	Strand	-
Start	17	End	2276
Name	OJ000112_07.0426.C10.o1.gs	Method	GENSCAN
Start	17	End	2276
GI	none	Score	.44
Exons	17..228, 2113..2276		

Seq. No.	55175	Seq. ID	OJ000112_07.0426.C10
Gene No.	115615	Strand	-
Start	2383	End	4890
Name	OJ000112_07.0426.C10.o1.np	Method	AAT/NAP
Start	2383	End	4141
GI	7106528	Score	481
Exons	2383..2443, 3679..4141		
GI Descrip.	(AP001278) EST D40774(S2920) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	55175	Seq. ID	OJ000112_07.0426.C10
Gene No.	115615	Strand	-
Start	2383	End	4890

Name	OJ000112_07.0426.C10.o2.gs	Method	GENSCAN
Start	3658	End	4890
GI	none	Score	.8
Exons	3658..3930, 3954..4153, 4447..4560, 4779..4890		

Seq. No.	55175	Seq. ID	OJ000112_07.0426.C10
Gene No.	115616	Strand	-
Start	9260	End	10250
Name	OJ000112_07.0426.C10.o2.np	Method	AAT/NAP
Start	9260	End	10250
GI	7339707	Score	114
Exons	9260..9365, 9932..9978, 10025..10114, 10143..10250		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	55176	Seq. ID	OJ000112_07.0426.C11
Gene No.	115617	Strand	+
Start	1	End	1307
Name	OJ000112_07.0426.C11.o1.np	Method	AAT/NAP
Start	1	End	694
GI	7339707	Score	63
Exons	1..49, 218..471, 538..694		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	55176	Seq. ID	OJ000112_07.0426.C11
Gene No.	115617	Strand	+
Start	1	End	1307
Name	OJ000112_07.0426.C11.o1.gs	Method	GENSCAN
Start	192	End	1307
GI	none	Score	.41
Exons	192..263, 1014..1307		

Seq. No.	55176	Seq. ID	OJ000112_07.0426.C11
Gene No.	115618	Strand	+
Start	1841	End	3296
Name	OJ000112_07.0426.C11.o2.gs	Method	GENSCAN
Start	1841	End	2581
GI	none	Score	.96
Exons	1841..2581		

Seq. No.	55176	Seq. ID	OJ000112_07.0426.C11
Gene No.	115618	Strand	+
Start	1841	End	3296
Name	OJ000112_07.0426.C11.o2.np	Method	AAT/NAP
Start	2304	End	3296
GI	5902362	Score	101
Exons	2304..2495, 3189..3296		
GI Descrip.	(AC009322) Hypothetical protein [Arabidopsis thaliana] gi|6453856|gb|AAF09040.1|AC011717_7 (AC011717) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55176	Seq. ID	OJ000112_07.0426.C11
Gene No.	115619	Strand	-
Start	3369	End	3517
Name	OJ000112_07.0426.C11.o3.gs	Method	GENSCAN
Start	3369	End	3517
GI	none	Score	.78
Exons	3369..3517		

Seq. No.	55177	Seq. ID	OJ000112_07.0426.C13
Gene No.	115620	Strand	+
Start	509	End	673
Name	OJ000112_07.0426.C13.o1.np	Method	AAT/NAP
Start	509	End	673
GI	4874311	Score	124
Exons	509..673		
GI Descrip.	(AC006053) unknown protein [Arabidopsis thaliana]		

Seq. No.	55177	Seq. ID	OJ000112_07.0426.C13
Gene No.	115620	Strand	+
Start	509	End	673
Name	OJ000112_07.0426.C13.o1.gs	Method	GENSCAN
Start	512	End	611
GI	none	Score	.64
Exons	512..611		

Seq. No.	55178	Seq. ID	OJ000112_07.0426.C15
Gene No.	115621	Strand	+
Start	484	End	1582
Name	OJ000112_07.0426.C15.o1.gs	Method	GENSCAN
Start	484	End	1582
GI	none	Score	.63
Exons	484..557, 1457..1582		

Seq. No.	55179	Seq. ID	OJ000112_07.0426.C16
Gene No.	115622	Strand	+
Start	328	End	1565
Name	OJ000112_07.0426.C16.o1.gs	Method	GENSCAN
Start	328	End	1565
GI	none	Score	.82
Exons	328..373, 568..640, 1400..1565		

Seq. No.	55179	Seq. ID	OJ000112_07.0426.C16
Gene No.	115623	Strand	-
Start	2039	End	2605
Name	OJ000112_07.0426.C16.o2.gs	Method	GENSCAN
Start	2039	End	2605
GI	none	Score	.85
Exons	2039..2425, 2540..2605		

Seq. No.	55180	Seq. ID	OJ000112_07.0426.C17
Gene No.	115624	Strand	-
Start	2325	End	3142
Name	OJ000112_07.0426.C17.o1.gs	Method	GENSCAN
Start	2325	End	3142
GI	none	Score	.59
Exons	2325..2423, 3074..3142		

Seq. No.	55181	Seq. ID	OJ000112_07.0426.C18
Gene No.	115625	Strand	-
Start	817	End	2941
Name	OJ000112_07.0426.C18.o1.np	Method	AAT/NAP
Start	666	End	2941
GI	7228438	Score	378
Exons	666..1009, 1654..1713, 2421..2587, 2680..2941		

GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog (AC003981) [Oryza sativa]		
Seq. No.	55181	Seq. ID	OJ000112_07.0426.C18
Gene No.	115625	Strand	-
Start	817	End	2941
Name	OJ000112_07.0426.C18.o1.gs	Method	GENSCAN
Start	817	End	2941
GI	none	Score	.57
Exons	817..977, 1832..2017, 2332..2587, 2680..2941		
Seq. No.	55181	Seq. ID	OJ000112_07.0426.C18
Gene No.	115625	Strand	-
Start	817	End	2941
Name	OJ000112_07.0426.C18.o1.gp	Method	AAT/GAP
Start	2001	End	2448
GI	LIB3433-020-P1-K1-A6	Score	713
Exons	2001..2448		
GI Descrip.	'5670155/gb|AF161269.1|AF161269 2.0e-35 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence'		
Seq. No.	55182	Seq. ID	OJ000112_07.0426.C19
Gene No.	115626	Strand	+
Start	4665	End	5046
Name	OJ000112_07.0426.C19.o2.gp	Method	AAT/GAP
Start	4665	End	5046
GI	uC-osf1cyp033a04b1	Score	667
Exons	4665..5046		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		
Seq. No.	55182	Seq. ID	OJ000112_07.0426.C19
Gene No.	115627	Strand	-
Start	1	End	9290
Name	OJ000112_07.0426.C19.o1.np	Method	AAT/NAP
Start	1	End	5633
GI	5441880	Score	1142
Exons	1..285, 862..1195, 1304..1443, 2045..2371, 5606..5633		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		
Seq. No.	55182	Seq. ID	OJ000112_07.0426.C19
Gene No.	115627	Strand	-
Start	1	End	9290
Name	OJ000112_07.0426.C19.o2.np	Method	AAT/NAP
Start	1	End	9290
GI	5852180	Score	595
Exons	1..48, 2587..2628, 3329..3738, 3790..3907, 4895..4996, 9264..9290		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		
Seq. No.	55182	Seq. ID	OJ000112_07.0426.C19
Gene No.	115627	Strand	-
Start	1	End	9290
Name	OJ000112_07.0426.C19.o1.gs	Method	GENSCAN

Start	25	End	3794
GI	none	Score	.55
Exons	25..285, 366..481, 515..707, 862..1228, 1304..1382, 2233..2277, 2449..2557, 3302..3516, 3521..3794		

Seq. No.	55182	Seq. ID	OJ000112_07.0426.C19
Gene No.	115627	Strand	-
Start	1	End	9290
Name	OJ000112_07.0426.C19.o3.gs	Method	GENSCAN
Start	8964	End	9193
GI	none	Score	.64
Exons	8964..9193		

Seq. No.	55183	Seq. ID	OJ000112_07.0426.C20
Gene No.	115628	Strand	-
Start	1	End	2346
Name	OJ000112_07.0426.C20.o1.np	Method	AAT/NAP
Start	1	End	2346
GI	7228442	Score	2024
Exons	1..25, 377..2346		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog. (AC003981) [Oryza sativa]		

Seq. No.	55183	Seq. ID	OJ000112_07.0426.C20
Gene No.	115628	Strand	-
Start	1	End	2346
Name	OJ000112_07.0426.C20.o1.tw	Method	TBLASTX:Wheat
Start	673	End	1050
GI	none	Score	66
Exons	673..846, 684..824, 779..847, 871..1047, 896..1048, 901..1050		

Seq. No.	55183	Seq. ID	OJ000112_07.0426.C20
Gene No.	115628	Strand	-
Start	1	End	2346
Name	OJ000112_07.0426.C20.o1.tm	Method	TBLASTX:Maize
Start	748	End	1303
GI	none	Score	209
Exons	748..819, 866..1303, 877..1296		

Seq. No.	55184	Seq. ID	OJ000112_07.0426.C21
Gene No.	115629	Strand	+
Start	37	End	453
Name	OJ000112_07.0426.C21.o1.gs	Method	GENSCAN
Start	37	End	453
GI	none	Score	.92
Exons	37..179, 387..453		

Seq. No.	55184	Seq. ID	OJ000112_07.0426.C21
Gene No.	115630	Strand	+
Start	1133	End	1345
Name	OJ000112_07.0426.C21.o2.gs	Method	GENSCAN
Start	1133	End	1345
GI	none	Score	.87
Exons	1133..1345		

Seq. No.	55184	Seq. ID	OJ000112_07.0426.C21

Gene No.	115631	Strand	+
Start	3652	End	5156
Name	OJ000112_07.0426.C21.o3.gs	Method	GENSCAN
Start	3652	End	5156
GI	none	Score	.51
Exons	3652..3659, 4464..4591, 4597..4672, 4988..5156		

Seq. No.	55184	Seq. ID	OJ000112_07.0426.C21
Gene No.	115632	Strand	-
Start	5688	End	12332
Name	OJ000112_07.0426.C21.o1.gp	Method	AAT/GAP
Start	5418	End	7294
GI	15193_1.R1084	Score	2302
Exons	5418..5961, 6074..6135, 6208..6345, 6484..6621, 6746..6919, 7010..7099, 7220..7294		
GI Descrip.	'4176420/dbj|BAA37167| 2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	55184	Seq. ID	OJ000112_07.0426.C21
Gene No.	115632	Strand	-
Start	5688	End	12332
Name	OJ000112_07.0426.C21.o4.gs	Method	GENSCAN
Start	5688	End	11319
GI	none	Score	.81
Exons	5688..5961, 6074..6135, 6208..6345, 6484..6621, 6746..7099, 7220..7603, 7724..7866, 11062..11115, 11199..11319		

Seq. No.	55184	Seq. ID	OJ000112_07.0426.C21
Gene No.	115632	Strand	-
Start	5688	End	12332
Name	OJ000112_07.0426.C21.o1.tm	Method	TBLASTX:Maize
Start	5689	End	7039
GI	none	Score	276
Exons	5689..5964, 5694..5966, 5848..5967, 5880..6041, 6065..6136, 6067..6147, 6073..6138, 6206..6346, 6208..6348, 6208..6345, 6466..6624, 6482..6622, 6508..6624, 6734..6922, 6747..6920, 6773..6922, 7004..7039, 7012..7035		

Seq. No.	55184	Seq. ID	OJ000112_07.0426.C21
Gene No.	115632	Strand	-
Start	5688	End	12332
Name	OJ000112_07.0426.C21.o1.ts	Method	TBLASTX:Soybean
Start	5689	End	11343
GI	none	Score	241
Exons	5689..5964, 5694..5966, 6049..6147, 6074..6136, 6206..6349, 6208..6342, 6484..6639, 6485..6622, 6507..6641, 6508..6639, 6734..6919, 6783..6920, 7004..7099, 7005..7100, 7220..7603, 7221..7499, 7718..7870, 11191..11343, 11192..11257		

Seq. No.	55184	Seq. ID	OJ000112_07.0426.C21
Gene No.	115632	Strand	-
Start	5688	End	12332
Name	OJ000112_07.0426.C21.o1.np	Method	AAT/NAP
Start	5691	End	12332
GI	7431444	Score	1234
Exons	5691..5961, 6074..6135, 6208..6345, 6484..6621, 6746..6919, 7010..7099, 7220..7603, 7724..7866, 11199..11254, 12269..12332		

GI Descrip. aldehyde dehydrogenase (NAD+) (EC 1.2.1.3) 2A precursor, mitochondrial - common tobacco gi|1743354|emb|CAA71003.1| (Y09876) aldehyde dehydrogenase (NAD+) [Nicotiana tabacum]

Seq. No.	55184	Seq. ID	OJ000112_07.0426.C21
Gene No.	115632	Strand	-
Start	5688	End	12332
Name	OJ000112_07.0426.C21.o1.tc	Method	TBLASTX:Cress
Start	5773	End	11253
GI	none	Score	41
Exons	5773..5826, 5817..5966, 5830..5964, 6065..6136, 6067..6147, 6206..6301, 6208..6300, 6298..6345, 6466..6624, 6485..6622, 6734..6922, 6750..6920, 7004..7111, 7008..7100, 7229..7489, 7245..7496, 7556..7603, 7718..7870, 11191..11253		

Seq. No.	55184	Seq. ID	OJ000112_07.0426.C21
Gene No.	115632	Strand	-
Start	5688	End	12332
Name	OJ000112_07.0426.C21.o2.tw	Method	TBLASTX:Wheat
Start	5784	End	5972
GI	none	Score	121
Exons	5784..5972, 5785..5952		

Seq. No.	55184	Seq. ID	OJ000112_07.0426.C21
Gene No.	115632	Strand	-
Start	5688	End	12332
Name	OJ000112_07.0426.C21.o1.tw	Method	TBLASTX:Wheat
Start	6070	End	7405
GI	none	Score	58
Exons	6070..6150, 6202..6249, 6265..6345, 6466..6621, 6731..6817, 6800..6874, 6863..6922, 7004..7102, 7011..7097, 7244..7405, 7254..7388		

Seq. No.	55184	Seq. ID	OJ000112_07.0426.C21
Gene No.	115632	Strand	-
Start	5688	End	12332
Name	OJ000112_07.0426.C21.o2.tm	Method	TBLASTX:Maize
Start	7040	End	11250
GI	none	Score	80
Exons	7040..7111, 7041..7100, 7229..7492, 7242..7493, 7556..7603, 7718..7870, 7740..7868, 11191..11250		

Seq. No.	55185	Seq. ID	OJ000112_07.0426.C22
Gene No.	115633	Strand	+
Start	834	End	1055
Name	OJ000112_07.0426.C22.o1.gs	Method	GENSCAN
Start	834	End	1055
GI	none	Score	1
Exons	834..1055		

Seq. No.	55186	Seq. ID	OJ000112_07.0426.C24
Gene No.	115634	Strand	-
Start	141	End	790
Name	OJ000112_07.0426.C24.o1.gp	Method	AAT/GAP
Start	141	End	790
GI	21278_1.R1084	Score	915
Exons	141..566, 664..790		

GI Descrip. '1421730 2.0e-90 (U43082) RF2 [Zea mays]'

Seq. No.	55186	Seq. ID	OJ000112_07.0426.C24
Gene No.	115634	Strand	-
Start	141	End	790
Name	OJ000112_07.0426.C24.o1.tm	Method	TBLASTX:Maize
Start	284	End	737
GI	none	Score	366
Exons	284..568, 285..569, 663..737, 663..728		

Seq. No.	55186	Seq. ID	OJ000112_07.0426.C24
Gene No.	115634	Strand	-
Start	141	End	790
Name	OJ000112_07.0426.C24.o1.tc	Method	TBLASTX:Cress
Start	290	End	562
GI	none	Score	167
Exons	290..562, 297..560		

Seq. No.	55186	Seq. ID	OJ000112_07.0426.C24
Gene No.	115634	Strand	-
Start	141	End	790
Name	OJ000112_07.0426.C24.o1.gs	Method	GENSCAN
Start	293	End	719
GI	none	Score	.98
Exons	293..566, 664..719		

Seq. No.	55186	Seq. ID	OJ000112_07.0426.C24
Gene No.	115634	Strand	-
Start	141	End	790
Name	OJ000112_07.0426.C24.o1.ts	Method	TBLASTX:Soybean
Start	293	End	728
GI	none	Score	257
Exons	293..568, 297..569, 663..728, 664..693		

Seq. No.	55186	Seq. ID	OJ000112_07.0426.C24
Gene No.	115634	Strand	-
Start	141	End	790
Name	OJ000112_07.0426.C24.o1.np	Method	AAT/NAP
Start	296	End	790
GI	7431451	Score	313
Exons	296..566, 664..740, 772..790		
GI Descrip.	rf2 nuclear restorer protein - maize gi|1421730|gb|AAC49371.1| (U43082) RF2 [Zea mays]		

Seq. No.	55186	Seq. ID	OJ000112_07.0426.C24
Gene No.	115634	Strand	-
Start	141	End	790
Name	OJ000112_07.0426.C24.o1.tw	Method	TBLASTX:Wheat
Start	389	End	728
GI	none	Score	110
Exons	389..577, 390..557, 666..728		

Seq. No.	55187	Seq. ID	OJ000112_07.0426.C26
Gene No.	115635	Strand	+
Start	2076	End	3748
Name	OJ000112_07.0426.C26.o2.gs	Method	GENSCAN
Start	2076	End	2795

GI	none	Score	.88
Exons	2076..2795		

Seq. No.	55187	Seq. ID	OJ000112_07.0426.C26
Gene No.	115635	Strand	+
Start	2076	End	3748
Name	OJ000112_07.0426.C26.o1.np	Method	AAT/NAP
Start	2085	End	3748
GI	4874311	Score	185
Exons	2085..2813, 3699..3748		
GI Descrip.	(AC006053) unknown protein [Arabidopsis thaliana]		

Seq. No.	55188	Seq. ID	OJ000112_07.0426.C27
Gene No.	115636	Strand	+
Start	1	End	778
Name	OJ000112_07.0426.C27.o1.np	Method	AAT/NAP
Start	1	End	778
GI	4874311	Score	122
Exons	1..42, 249..388, 737..778		
GI Descrip.	(AC006053) unknown protein [Arabidopsis thaliana]		

Seq. No.	55189	Seq. ID	OJ000112_07.0426.C32
Gene No.	115637	Strand	+
Start	357	End	475
Name	OJ000112_07.0426.C32.o1.gs	Method	GENSCAN
Start	357	End	475
GI	none	Score	.88
Exons	357..475		

Seq. No.	55189	Seq. ID	OJ000112_07.0426.C32
Gene No.	115638	Strand	+
Start	591	End	1103
Name	OJ000112_07.0426.C32.o1.gp	Method	AAT/GAP
Start	591	End	1103
GI	2798781	Score	966
Exons	591..1103		

Seq. No.	55190	Seq. ID	OJ000112_06.0426.C1
Gene No.	115639	Strand	-
Start	74	End	831
Name	OJ000112_06.0426.C1.o1.gs	Method	GENSCAN
Start	74	End	831
GI	none	Score	.71
Exons	74..180, 432..524, 747..831		

Seq. No.	55191	Seq. ID	OJ000112_06.0426.C3
Gene No.	115640	Strand	+
Start	1318	End	1615
Name	OJ000112_06.0426.C3.o1.gs	Method	GENSCAN
Start	1318	End	1615
GI	none	Score	.99
Exons	1318..1615		

Seq. No.	55191	Seq. ID	OJ000112_06.0426.C3
Gene No.	115641	Strand	-
Start	2499	End	7099
Name	OJ000112_06.0426.C3.o2.gs	Method	GENSCAN

Start	2499	End	7099
GI	none	Score	.57
Exons	2499..2670, 4114..4154, 4661..4702, 5614..5844, 6843..6907, 7012..7099		

Seq. No.	55192	Seq. ID	OJ000112_06.0426.C4
Gene No.	115642	Strand	+
Start	958	End	1176
Name	OJ000112_06.0426.C4.o1.gs	Method	GENSCAN
Start	958	End	1176
GI	none	Score	.45
Exons	958..1063, 1094..1176		

Seq. No.	55192	Seq. ID	OJ000112_06.0426.C4
Gene No.	115643	Strand	+
Start	8041	End	8121
Name	OJ000112_06.0426.C4.o1.gp	Method	AAT/GAP
Start	8041	End	8121
GI	38012_1.R1084	Score	103
Exons	8041..8121		
GI Descrip.	'4097947/gb|U72255|OSU72255 2.0e-23 Oryza sativa beta-1,3-glucanase precursor (Gns9) gene, complete cds'		

Seq. No.	55192	Seq. ID	OJ000112_06.0426.C4
Gene No.	115644	Strand	-
Start	3001	End	4665
Name	OJ000112_06.0426.C4.o1.np	Method	AAT/NAP
Start	2004	End	4566
GI	7488210	Score	1034
Exons	2004..2038, 3341..4009, 4052..4566		
GI Descrip.	probable Ste20-like kinase - Arabidopsis thaliana gi|2244804|emb|CAB10227.1| (Z97336) kinase like protein [Arabidopsis thaliana] gi|7268154|emb|CAB78490.1| (AL161539) kinase like protein [Arabidopsis thaliana]		

Seq. No.	55192	Seq. ID	OJ000112_06.0426.C4
Gene No.	115644	Strand	-
Start	3001	End	4665
Name	OJ000112_06.0426.C4.o2.gs	Method	GENSCAN
Start	3001	End	4665
GI	none	Score	.98
Exons	3001..4665		

Seq. No.	55192	Seq. ID	OJ000112_06.0426.C4
Gene No.	115645	Strand	-
Start	5266	End	9392
Name	OJ000112_06.0426.C4.o1.ts	Method	TBLASTX:Soybean
Start	3610	End	4483
GI	none	Score	125
Exons	3610..3711, 3811..3981, 3836..3970, 4069..4446, 4082..4246, 4274..4444, 4285..4446, 4436..4483		

Seq. No.	55192	Seq. ID	OJ000112_06.0426.C4
Gene No.	115645	Strand	-
Start	5266	End	9392
Name	OJ000112_06.0426.C4.o1.tm	Method	TBLASTX:Maize
Start	3622	End	4240

GI	none	Score	140
Exons	3622..3711, 3811..3981, 3836..3970, 4067..4240, 4069..4239		

Seq. No.	55192	Seq. ID	OJ000112_06.0426.C4
Gene No.	115645	Strand	-
Start	5266	End	9392
Name	OJ000112_06.0426.C4.o1.tc	Method	TBLASTX:Cress
Start	3817	End	4443
GI	none	Score	101
Exons	3817..3969, 3818..3970, 4066..4236, 4082..4231, 4243..4443		

Seq. No.	55192	Seq. ID	OJ000112_06.0426.C4
Gene No.	115645	Strand	-
Start	5266	End	9392
Name	OJ000112_06.0426.C4.o3.gs	Method	GENSCAN
Start	5266	End	9392
GI	none	Score	.46
Exons	5266..5666, 6859..7109, 9087..9172, 9324..9392		

Seq. No.	55193	Seq. ID	OJ000112_06.0426.C5
Gene No.	115646	Strand	-
Start	597	End	7776
Name	OJ000112_06.0426.C5.o1.gs	Method	GENSCAN
Start	597	End	3705
GI	none	Score	.7
Exons	597..661, 866..893, 1383..1539, 1799..2115, 2677..2912, 3002..3264, 3626..3705		

Seq. No.	55193	Seq. ID	OJ000112_06.0426.C5
Gene No.	115646	Strand	-
Start	597	End	7776
Name	OJ000112_06.0426.C5.o1.np	Method	AAT/NAP
Start	1361	End	7584
GI	6815103	Score	221
Exons	1361..1584, 1799..2105, 5640..5749, 7522..7584		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	55193	Seq. ID	OJ000112_06.0426.C5
Gene No.	115646	Strand	-
Start	597	End	7776
Name	OJ000112_06.0426.C5.o3.gs	Method	GENSCAN
Start	5410	End	7776
GI	none	Score	.6
Exons	5410..5538, 5688..5932, 6716..6828, 7373..7776		

Seq. No.	55193	Seq. ID	OJ000112_06.0426.C5
Gene No.	115646	Strand	-
Start	597	End	7776
Name	OJ000112_06.0426.C5.o2.np	Method	AAT/NAP
Start	6142	End	7450
GI	5777617	Score	97
Exons	6142..6266, 7309..7450		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	55193	Seq. ID	OJ000112_06.0426.C5
Gene No.	115647	Strand	-
Start	8384	End	8714

Name	OJ000112_06.0426.C5.o3.np	Method	AAT/NAP
Start	8384	End	8714
GI	7523490	Score	108
Exons	8384..8714		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	55194	Seq. ID	OJ000112_06.0426.C6
Gene No.	115648	Strand	+
Start	1168	End	1716
Name	OJ000112_06.0426.C6.o1.gs	Method	GENSCAN
Start	1168	End	1716
GI	none	Score	.72
Exons	1168..1340, 1452..1716		

Seq. No.	55194	Seq. ID	OJ000112_06.0426.C6
Gene No.	115649	Strand	+
Start	6261	End	12037
Name	OJ000112_06.0426.C6.o3.gs	Method	GENSCAN
Start	6261	End	12011
GI	none	Score	.57
Exons	6261..6302, 6745..6824, 7160..7238, 7968..11180, 11301..12011		

Seq. No.	55194	Seq. ID	OJ000112_06.0426.C6
Gene No.	115649	Strand	+
Start	6261	End	12037
Name	OJ000112_06.0426.C6.o1.np	Method	AAT/NAP
Start	7761	End	12037
GI	5734736	Score	2815
Exons	7761..8336, 8379..8665, 8741..10272, 10437..12037		
GI Descrip.	(AC007259) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55194	Seq. ID	OJ000112_06.0426.C6
Gene No.	115650	Strand	+
Start	13432	End	38998
Name	OJ000112_06.0426.C6.o2.np	Method	AAT/NAP
Start	13432	End	38998
GI	7340884	Score	171
Exons	13432..13585, 33296..33412, 38946..38998		
GI Descrip.	(AP001551) Similar to Antirrhinum majus transposon Tam3 gene for transposase. (AB013982) [Oryza sativa]		

Seq. No.	55194	Seq. ID	OJ000112_06.0426.C6
Gene No.	115650	Strand	+
Start	13432	End	38998
Name	OJ000112_06.0426.C6.o3.np	Method	AAT/NAP
Start	16440	End	19477
GI	6006367	Score	59
Exons	16440..16502, 17934..18098, 19401..19477		
GI Descrip.	(AP000559) hypothetical protein [Oryza sativa]		

Seq. No.	55194	Seq. ID	OJ000112_06.0426.C6
Gene No.	115650	Strand	+
Start	13432	End	38998
Name	OJ000112_06.0426.C6.o4.np	Method	AAT/NAP
Start	19361	End	19706
GI	4567303	Score	139
Exons	19361..19706		

GI Descrip. (AC005956) unknown protein [Arabidopsis thaliana]

Seq. No.	55194	Seq. ID	OJ000112_06.0426.C6
Gene No.	115650	Strand	+
Start	13432	End	38998
Name	OJ000112_06.0426.C6.o8.gs	Method	GENSCAN
Start	28112	End	29433
GI	none	Score	.51
Exons	28112..28477, 29182..29433		

Seq. No.	55194	Seq. ID	OJ000112_06.0426.C6
Gene No.	115651	Strand	-
Start	707	End	798
Name	OJ000112_06.0426.C6.o1.gp	Method	AAT/GAP
Start	707	End	798
GI	LIB3477-003-P1-K1-E9	Score	129
Exons	707..798		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) ->gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	55194	Seq. ID	OJ000112_06.0426.C6
Gene No.	115652	Strand	-
Start	3541	End	5083
Name	OJ000112_06.0426.C6.o2.gs	Method	GENSCAN
Start	3541	End	5083
GI	none	Score	.96
Exons	3541..4261, 4365..5083		

Seq. No.	55194	Seq. ID	OJ000112_06.0426.C6
Gene No.	115653	Strand	-
Start	20719	End	24168
Name	OJ000112_06.0426.C6.o6.gs	Method	GENSCAN
Start	20719	End	24168
GI	none	Score	.41
Exons	20719..20898, 21332..21449, 22803..22907, 23127..23395, 23618..23739, 24108..24168		

Seq. No.	55194	Seq. ID	OJ000112_06.0426.C6
Gene No.	115653	Strand	-
Start	20719	End	24168
Name	OJ000112_06.0426.C6.o5.np	Method	AAT/NAP
Start	22125	End	23624
GI	5852093	Score	70
Exons	22125..22249, 23518..23624		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	55194	Seq. ID	OJ000112_06.0426.C6
Gene No.	115654	Strand	-
Start	30961	End	38953
Name	OJ000112_06.0426.C6.o4.tc	Method	TBLASTX:Cress
Start	1363	End	1665
GI	none	Score	70
Exons	1363..1455, 1364..1456, 1528..1665, 1532..1660		

Seq. No.	55194	Seq. ID	OJ000112_06.0426.C6
Gene No.	115654	Strand	-

Start	30961	End	38953
Name	OJ000112_06.0426.C6.o6.tw	Method	TBLASTX:Wheat
Start	4364	End	28649
GI	none	Score	115
Exons	4364..4570, 4386..4565, 25720..25800, 25778..25915, 28450..28530, 28451..28531, 28524..28649		

Seq. No.	55194	Seq. ID	OJ000112_06.0426.C6
Gene No.	115654	Strand	-
Start	30961	End	38953
Name	OJ000112_06.0426.C6.o7.tm	Method	TBLASTX:Maize
Start	4727	End	25551
GI	none	Score	73
Exons	4727..4822, 4728..4823, 4826..5077, 4827..4898, 25206..25289, 25291..25425, 25294..25422, 25458..25550, 25459..25551		

Seq. No.	55194	Seq. ID	OJ000112_06.0426.C6
Gene No.	115654	Strand	-
Start	30961	End	38953
Name	OJ000112_06.0426.C6.o4.tw	Method	TBLASTX:Wheat
Start	5479	End	17408
GI	none	Score	57
Exons	5479..5574, 7896..8291, 17351..17398, 17352..17408		

Seq. No.	55194	Seq. ID	OJ000112_06.0426.C6
Gene No.	115654	Strand	-
Start	30961	End	38953
Name	OJ000112_06.0426.C6.o4.tm	Method	TBLASTX:Maize
Start	8016	End	8405
GI	none	Score	196
Exons	8016..8219, 8016..8225, 8231..8341, 8232..8342, 8322..8405, 8336..8404		

Seq. No.	55194	Seq. ID	OJ000112_06.0426.C6
Gene No.	115654	Strand	-
Start	30961	End	38953
Name	OJ000112_06.0426.C6.o8.tm	Method	TBLASTX:Maize
Start	8826	End	9236
GI	none	Score	184
Exons	8826..9044, 8861..9001, 9104..9232, 9105..9236		

Seq. No.	55194	Seq. ID	OJ000112_06.0426.C6
Gene No.	115654	Strand	-
Start	30961	End	38953
Name	OJ000112_06.0426.C6.o3.tw	Method	TBLASTX:Wheat
Start	8846	End	9302
GI	none	Score	164
Exons	8846..9067, 8847..9092, 9108..9215, 9170..9217, 9216..9302		

Seq. No.	55194	Seq. ID	OJ000112_06.0426.C6
Gene No.	115654	Strand	-
Start	30961	End	38953
Name	OJ000112_06.0426.C6.o4.ts	Method	TBLASTX:Soybean
Start	9240	End	9569
GI	none	Score	231
Exons	9240..9569		

Seq. No.	55194	Seq. ID	OJ000112_06.0426.C6
Gene No.	115654	Strand	-
Start	30961	End	38953
Name	OJ000112_06.0426.C6.o2.tw	Method	TBLASTX:Wheat
Start	9390	End	9935
GI	none	Score	328
Exons	9390..9836, 9551..9823, 9845..9913, 9846..9935		

Seq. No.	55194	Seq. ID	OJ000112_06.0426.C6
Gene No.	115654	Strand	-
Start	30961	End	38953
Name	OJ000112_06.0426.C6.o1.tm	Method	TBLASTX:Maize
Start	9582	End	10007
GI	none	Score	365
Exons	9582..9923, 9596..9913, 9659..9925, 9667..9930, 9936..10007		

Seq. No.	55194	Seq. ID	OJ000112_06.0426.C6
Gene No.	115654	Strand	-
Start	30961	End	38953
Name	OJ000112_06.0426.C6.o2.ts	Method	TBLASTX:Soybean
Start	9609	End	10085
GI	none	Score	412
Exons	9609..10085, 9617..9910, 9621..10085		

Seq. No.	55194	Seq. ID	OJ000112_06.0426.C6
Gene No.	115654	Strand	-
Start	30961	End	38953
Name	OJ000112_06.0426.C6.o2.tc	Method	TBLASTX:Cress
Start	9624	End	10070
GI	none	Score	273
Exons	9624..10070		

Seq. No.	55194	Seq. ID	OJ000112_06.0426.C6
Gene No.	115654	Strand	-
Start	30961	End	38953
Name	OJ000112_06.0426.C6.o1.ts	Method	TBLASTX:Soybean
Start	10464	End	10979
GI	5509260	Score	429
Exons	10464..10979, 10565..10744, 10802..10957		
GI Descrip.	-		

Seq. No.	55194	Seq. ID	OJ000112_06.0426.C6
Gene No.	115654	Strand	-
Start	30961	End	38953
Name	OJ000112_06.0426.C6.o3.tm	Method	TBLASTX:Maize
Start	10506	End	10823
GI	none	Score	369
Exons	10506..10823, 10515..10811, 10598..10822		

Seq. No.	55194	Seq. ID	OJ000112_06.0426.C6
Gene No.	115654	Strand	-
Start	30961	End	38953
Name	OJ000112_06.0426.C6.o3.tc	Method	TBLASTX:Cress
Start	10598	End	10862
GI	none	Score	262
Exons	10598..10843, 10599..10862		

Seq. No.	55194	Seq. ID	OJ000112_06.0426.C6
Gene No.	115654	Strand	-
Start	30961	End	38953
Name	OJ000112_06.0426.C6.o1.tw	Method	TBLASTX:Wheat
Start	10643	End	11183
GI	none	Score	304
Exons	10643..10777, 10644..10988, 10802..10984, 10974..11183		

Seq. No.	55194	Seq. ID	OJ000112_06.0426.C6
Gene No.	115654	Strand	-
Start	30961	End	38953
Name	OJ000112_06.0426.C6.o2.tm	Method	TBLASTX:Maize
Start	11043	End	11465
GI	none	Score	378
Exons	11043..11465, 11049..11432, 11231..11461		

Seq. No.	55194	Seq. ID	OJ000112_06.0426.C6
Gene No.	115654	Strand	-
Start	30961	End	38953
Name	OJ000112_06.0426.C6.o1.tc	Method	TBLASTX:Cress
Start	11319	End	11993
GI	none	Score	251
Exons	11319..11435, 11330..11527, 11331..11624, 11618..11746, 11619..11744, 11741..11992, 11742..11993		

Seq. No.	55194	Seq. ID	OJ000112_06.0426.C6
Gene No.	115654	Strand	-
Start	30961	End	38953
Name	OJ000112_06.0426.C6.o3.ts	Method	TBLASTX:Soybean
Start	11352	End	12001
GI	none	Score	139
Exons	11352..11513, 11526..11999, 11618..12001		

Seq. No.	55194	Seq. ID	OJ000112_06.0426.C6
Gene No.	115654	Strand	-
Start	30961	End	38953
Name	OJ000112_06.0426.C6.o5.tw	Method	TBLASTX:Wheat
Start	11517	End	11963
GI	none	Score	127
Exons	11517..11747, 11745..11963, 11765..11959		

Seq. No.	55194	Seq. ID	OJ000112_06.0426.C6
Gene No.	115654	Strand	-
Start	30961	End	38953
Name	OJ000112_06.0426.C6.o5.tm	Method	TBLASTX:Maize
Start	11607	End	11989
GI	none	Score	273
Exons	11607..11951, 11613..11846, 11639..11989		

Seq. No.	55194	Seq. ID	OJ000112_06.0426.C6
Gene No.	115654	Strand	-
Start	30961	End	38953
Name	OJ000112_06.0426.C6.o6.tm	Method	TBLASTX:Maize
Start	19386	End	19883
GI	none	Score	43
Exons	19386..19448, 19421..19483, 19497..19655, 19498..19653, 19680..19787, 19706..19780, 19776..19883, 19803..19823,		

19843..19872

Seq. No.	55194	Seq. ID	OJ000112_06.0426.C6
Gene No.	115654	Strand	-
Start	30961	End	38953
Name	OJ000112_06.0426.C6.o7.tw	Method	TBLASTX:Wheat
Start	19386	End	38953
GI	none	Score	46
Exons	19386..19460, 19410..19466, 19466..19483, 19506..19655, 19507..19653, 38858..38953		

Seq. No.	55194	Seq. ID	OJ000112_06.0426.C6
Gene No.	115654	Strand	-
Start	30961	End	38953
Name	OJ000112_06.0426.C6.o9.gs	Method	GENSCAN
Start	30961	End	31356
GI	none	Score	.98
Exons	30961..31356		

Seq. No.	55195	Seq. ID	OJ000112_06.0426.C7
Gene No.	115655	Strand	-
Start	434	End	2986
Name	OJ000112_06.0426.C7.o1.gs	Method	GENSCAN
Start	434	End	2986
GI	none	Score	.6
Exons	434..622, 702..800, 895..967, 1052..1197, 1259..1432, 1542..1603, 1681..2322, 2447..2602, 2773..2986		

Seq. No.	55196	Seq. ID	OJ000112_06.0426.C8
Gene No.	115656	Strand	-
Start	1	End	1919
Name	OJ000112_06.0426.C8.o1.np	Method	AAT/NAP
Start	1	End	397
GI	4680204	Score	75
Exons	1..397		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	55196	Seq. ID	OJ000112_06.0426.C8
Gene No.	115656	Strand	-
Start	1	End	1919
Name	OJ000112_06.0426.C8.o1.gs	Method	GENSCAN
Start	102	End	1919
GI	none	Score	.41
Exons	102..401, 1448..1919		

Seq. No.	55196	Seq. ID	OJ000112_06.0426.C8
Gene No.	115657	Strand	-
Start	2242	End	2530
Name	OJ000112_06.0426.C8.o1.gp	Method	AAT/GAP
Start	2242	End	2530
GI	342_1.R1084	Score	530
Exons	2242..2530		
GI Descrip.	'4574406/gb|AAD24042.1| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	55197	Seq. ID	OJ000112_06.0426.C9
Gene No.	115658	Strand	-

Start	1	End	2498
Name	OJ000112_06.0426.C9.o1.gp	Method	AAT/GAP
Start	1	End	2498
GI	342_1.R1084	Score	4271
Exons	1..2498		
GI Descrip.	'4574406/gb|AAD24042.1| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	55197	Seq. ID	OJ000112_06.0426.C9
Gene No.	115658	Strand	-
Start	1	End	2498
Name	OJ000112_06.0426.C9.o1.gs	Method	GENSCAN
Start	156	End	2086
GI	none	Score	.87
Exons	156..746, 1068..1249, 1450..1882, 1928..2086		

Seq. No.	55197	Seq. ID	OJ000112_06.0426.C9
Gene No.	115658	Strand	-
Start	1	End	2498
Name	OJ000112_06.0426.C9.o1.tw	Method	TBLASTX:Wheat
Start	231	End	1437
GI	none	Score	52
Exons	231..323, 232..297, 312..392, 405..545, 406..546, 493..588, 525..584, 591..632, 591..635, 630..1430, 645..962, 919..1437		

Seq. No.	55197	Seq. ID	OJ000112_06.0426.C9
Gene No.	115658	Strand	-
Start	1	End	2498
Name	OJ000112_06.0426.C9.o1.np	Method	AAT/NAP
Start	715	End	2403
GI	6742729	Score	2357
Exons	715..2403		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	55197	Seq. ID	OJ000112_06.0426.C9
Gene No.	115658	Strand	-
Start	1	End	2498
Name	OJ000112_06.0426.C9.o1.tc	Method	TBLASTX:Cress
Start	813	End	1264
GI	none	Score	176
Exons	813..1250, 813..1256, 823..1260, 919..1260, 1082..1264		

Seq. No.	55197	Seq. ID	OJ000112_06.0426.C9
Gene No.	115658	Strand	-
Start	1	End	2498
Name	OJ000112_06.0426.C9.o2.tm	Method	TBLASTX:Maize
Start	1191	End	1433
GI	none	Score	107
Exons	1191..1433, 1219..1419		

Seq. No.	55197	Seq. ID	OJ000112_06.0426.C9
Gene No.	115658	Strand	-
Start	1	End	2498
Name	OJ000112_06.0426.C9.o3.tw	Method	TBLASTX:Wheat
Start	1452	End	1732
GI	none	Score	182
Exons	1452..1613, 1455..1535, 1457..1612, 1587..1730, 1610..1732		

Seq. No.	55197	Seq. ID	OJ000112_06.0426.C9
Gene No.	115658	Strand	-
Start	1	End	2498
Name	OJ000112_06.0426.C9.o2.ts	Method	TBLASTX:Soybean
Start	1721	End	1963
GI	none	Score	213
Exons	1721..1963		

Seq. No.	55197	Seq. ID	OJ000112_06.0426.C9
Gene No.	115658	Strand	-
Start	1	End	2498
Name	OJ000112_06.0426.C9.o1.tm	Method	TBLASTX:Maize
Start	1793	End	2238
GI	none	Score	64
Exons	1793..1987, 1997..2122, 1998..2123, 2119..2238		

Seq. No.	55197	Seq. ID	OJ000112_06.0426.C9
Gene No.	115658	Strand	-
Start	1	End	2498
Name	OJ000112_06.0426.C9.o2.tw	Method	TBLASTX:Wheat
Start	1827	End	2295
GI	none	Score	138
Exons	1827..2033, 1827..2036, 1832..2035, 1832..2056, 2036..2122, 2037..2123, 2137..2241, 2141..2230, 2242..2295, 2243..2287		

Seq. No.	55197	Seq. ID	OJ000112_06.0426.C9
Gene No.	115658	Strand	-
Start	1	End	2498
Name	OJ000112_06.0426.C9.o2.tc	Method	TBLASTX:Cress
Start	2122	End	2431
GI	none	Score	58
Exons	2122..2424, 2144..2239, 2279..2431		

Seq. No.	55197	Seq. ID	OJ000112_06.0426.C9
Gene No.	115658	Strand	-
Start	1	End	2498
Name	OJ000112_06.0426.C9.o1.ts	Method	TBLASTX:Soybean
Start	2164	End	2460
GI	none	Score	129
Exons	2164..2460, 2182..2406		

Seq. No.	55198	Seq. ID	OJ000112_06.0426.C10
Gene No.	115659	Strand	+
Start	6688	End	9905
Name	OJ000112_06.0426.C10.o2.gs	Method	GENSCAN
Start	6688	End	9905
GI	none	Score	.62
Exons	6688..6970, 7106..7294, 8249..8531, 8590..8673, 8751..9032, 9569..9905		

Seq. No.	55198	Seq. ID	OJ000112_06.0426.C10
Gene No.	115659	Strand	+
Start	6688	End	9905
Name	OJ000112_06.0426.C10.o2.np	Method	AAT/NAP
Start	6814	End	7356
GI	2146740	Score	352

Exons	6814..7356		
GI Descrip.	inner mitochondrial membrane protein - Arabidopsis thaliana gi|603056 (U18126) inner mitochondrial membrane protein [Arabidopsis thaliana] gi|6648153|gb|AAF21153.1|AC010926_5 (AC010926) inner mitochondrial membrane protein [Arabidopsis thaliana]		
Seq. No.	55198	Seq. ID	OJ000112_06.0426.C10
Gene No.	115660	Strand	+
Start	10502	End	14186
Name	OJ000112_06.0426.C10.o3.gs	Method	GENSCAN
Start	10502	End	14186
GI	none	Score	.59
Exons	10502..10919, 12194..12270, 14025..14186		
Seq. No.	55198	Seq. ID	OJ000112_06.0426.C10
Gene No.	115660	Strand	+
Start	10502	End	14186
Name	OJ000112_06.0426.C10.o2.gp	Method	AAT/GAP
Start	10660	End	11098
GI	LIB3433-030-P1-K1-A8	Score	726
Exons	10660..11098		
GI Descrip.	'6015437/dbj|AB008112.1|AB008112 5.0e-10 Homo sapiens PEX1 mRNA, complete cds'		
Seq. No.	55198	Seq. ID	OJ000112_06.0426.C10
Gene No.	115661	Strand	+
Start	15453	End	15682
Name	OJ000112_06.0426.C10.o3.gp	Method	AAT/GAP
Start	15453	End	15682
GI	3759961	Score	415
Exons	15453..15682		
Seq. No.	55198	Seq. ID	OJ000112_06.0426.C10
Gene No.	115662	Strand	+
Start	17488	End	18913
Name	OJ000112_06.0426.C10.o5.np	Method	AAT/NAP
Start	17488	End	18913
GI	5852084	Score	79
Exons	17488..17511, 18824..18913		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		
Seq. No.	55198	Seq. ID	OJ000112_06.0426.C10
Gene No.	115663	Strand	-
Start	37	End	1883
Name	OJ000112_06.0426.C10.o1.gs	Method	GENSCAN
Start	37	End	1883
GI	none	Score	.95
Exons	37..397, 822..916, 1340..1692, 1798..1883		
Seq. No.	55198	Seq. ID	OJ000112_06.0426.C10
Gene No.	115663	Strand	-
Start	37	End	1883
Name	OJ000112_06.0426.C10.o1.np	Method	AAT/NAP
Start	68	End	397
GI	5852182	Score	414
Exons	68..397		

GI Descrip. (AL117265) zhb0012.1 [Oryza sativa]

Seq. No.	55198	Seq. ID	OJ000112_06.0426.C10
Gene No.	115663	Strand	-
Start	37	End	1883
Name	OJ000112_06.0426.C10.o1.gp	Method	AAT/GAP
Start	258	End	848
GI	2310235	Score	303
Exons	258..397, 811..848		
GI Descrip.	5852182/emb|CAB55420.1| 9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]		

Seq. No.	55198	Seq. ID	OJ000112_06.0426.C10
Gene No.	115664	Strand	-
Start	15777	End	17013
Name	OJ000112_06.0426.C10.o1.tm	Method	TBLASTX:Maize
Start	6848	End	7163
GI	none	Score	131
Exons	6848..6907, 6862..6945, 6867..6950, 6940..7059, 6942..7058, 6999..7070, 7009..7071, 7056..7112, 7059..7103, 7106..7156, 7106..7156, 7117..7158, 7122..7163		

Seq. No.	55198	Seq. ID	OJ000112_06.0426.C10
Gene No.	115664	Strand	-
Start	15777	End	17013
Name	OJ000112_06.0426.C10.o1.ts	Method	TBLASTX:Soybean
Start	6868	End	7353
GI	none	Score	91
Exons	6868..6945, 6964..7017, 7059..7109, 7106..7156, 7161..7352, 7162..7353		

Seq. No.	55198	Seq. ID	OJ000112_06.0426.C10
Gene No.	115664	Strand	-
Start	15777	End	17013
Name	OJ000112_06.0426.C10.o1.tc	Method	TBLASTX:Cress
Start	6904	End	7353
GI	none	Score	52
Exons	6904..6945, 6940..7017, 7059..7106, 7161..7352, 7162..7353		

Seq. No.	55198	Seq. ID	OJ000112_06.0426.C10
Gene No.	115664	Strand	-
Start	15777	End	17013
Name	OJ000112_06.0426.C10.o2.tm	Method	TBLASTX:Maize
Start	7176	End	7362
GI	none	Score	82
Exons	7176..7250, 7176..7358, 7177..7362		

Seq. No.	55198	Seq. ID	OJ000112_06.0426.C10
Gene No.	115664	Strand	-
Start	15777	End	17013
Name	OJ000112_06.0426.C10.o4.gs	Method	GENSCAN
Start	15777	End	16271
GI	none	Score	.51
Exons	15777..16271		

Seq. No.	55198	Seq. ID	OJ000112_06.0426.C10
Gene No.	115664	Strand	-

Start	15777	End	17013
Name	OJ000112_06.0426.C10.o3.np	Method	AAT/NAP
Start	15780	End	17013
GI	7485648	Score	364
Exons	15780..16106, 16939..17013		
GI Descrip.	hypothetical protein F17L22.80 - Arabidopsis thaliana gi|4455270|emb|CAB36806.1| (AL035527) putative protein [Arabidopsis thaliana] gi|7268959|emb|CAB81269.1| (AL161555) putative protein [Arabidopsis thaliana]		

Seq. No.	55198	Seq. ID	OJ000112_06.0426.C10
Gene No.	115664	Strand	-
Start	15777	End	17013
Name	OJ000112_06.0426.C10.o4.gp	Method	AAT/GAP
Start	15859	End	16320
GI	none	Score	881
Exons	15859..16320		

Seq. No.	55198	Seq. ID	OJ000112_06.0426.C10
Gene No.	115665	Strand	
Start	17178	End	17548
Name	OJ000112_06.0426.C10.o3.tm	Method	TBLASTX:Maize
Start	17178	End	17548
GI	none	Score	70
Exons	17178..17252, 17317..17541, 17402..17548		

Seq. No.	55199	Seq. ID	OJ000112_06.0426.C11
Gene No.	115666	Strand	+
Start	57	End	770
Name	OJ000112_06.0426.C11.o1.gs	Method	GENSCAN
Start	57	End	770
GI	none	Score	.81
Exons	57..186, 708..770		

Seq. No.	55199	Seq. ID	OJ000112_06.0426.C11
Gene No.	115667	Strand	+
Start	2906	End	3152
Name	OJ000112_06.0426.C11.o3.gs	Method	GENSCAN
Start	2906	End	3152
GI	none	Score	.8
Exons	2906..2936, 2938..3152		

Seq. No.	55199	Seq. ID	OJ000112_06.0426.C11
Gene No.	115668	Strand	+
Start	3066	End	5883
Name	OJ000112_06.0426.C11.o2.np	Method	AAT/NAP
Start	3066	End	5863
GI	7486883	Score	232
Exons	3066..3148, 4251..4392, 4663..4742, 5497..5863		
GI Descrip.	hypothetical protein T12H17.170 - Arabidopsis thaliana gi|2827555|emb|CAA16563.1| (AL021635) Translation factor EF-1 alpha - like protein [Arabidopsis thaliana] gi|7269125|emb|CAB79233.1| (AL161558) Translation factor EF-1 alpha-like protein [Arabidopsis thaliana]		

Seq. No.	55199	Seq. ID	OJ000112_06.0426.C11
Gene No.	115668	Strand	+

Start	3066	End	5883
Name	OJ000112_06.0426.C11.o4.gs	Method	GENSCAN
Start	3427	End	4769
GI	none	Score	.43
Exons	3427..3534, 3586..3983, 4024..4273, 4391..4493, 4612..4769		

Seq. No.	55199	Seq. ID	OJ000112_06.0426.C11
Gene No.	115668	Strand	+
Start	3066	End	5883
Name	OJ000112_06.0426.C11.o5.gs	Method	GENSCAN
Start	5515	End	5883
GI	none	Score	.91
Exons	5515..5883		

Seq. No.	55199	Seq. ID	OJ000112_06.0426.C11
Gene No.	115669	Strand	-
Start	1477	End	2118
Name	OJ000112_06.0426.C11.o1.np	Method	AAT/NAP
Start	1468	End	1968
GI	3810594	Score	367
Exons	1468..1968		
GI Descrip.	(AC005398) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55199	Seq. ID	OJ000112_06.0426.C11
Gene No.	115669	Strand	-
Start	1477	End	2118
Name	OJ000112_06.0426.C11.o2.gs	Method	GENSCAN
Start	1477	End	2118
GI	none	Score	.56
Exons	1477..2118		

Seq. No.	55199	Seq. ID	OJ000112_06.0426.C11
Gene No.	115670	Strand	-
Start	6778	End	9897
Name	OJ000112_06.0426.C11.o1.gp	Method	AAT/GAP
Start	6548	End	8667
GI	57451_1.R1084	Score	743
Exons	6548..6895, 8555..8667		
GI Descrip.	'5852182/emb|CAB55420.1| 9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]'		

Seq. No.	55199	Seq. ID	OJ000112_06.0426.C11
Gene No.	115670	Strand	-
Start	6778	End	9897
Name	OJ000112_06.0426.C11.o6.gs	Method	GENSCAN
Start	6778	End	9897
GI	none	Score	.5
Exons	6778..6895, 8556..8696, 9632..9897		

Seq. No.	55199	Seq. ID	OJ000112_06.0426.C11
Gene No.	115671	Strand	-
Start	11242	End	11650
Name	OJ000112_06.0426.C11.o2.ts	Method	TBLASTX:Soybean
Start	1531	End	1953
GI	none	Score	65
Exons	1531..1602, 1654..1698, 1795..1914, 1796..1915, 1888..1953, 1889..1936		

Seq. No.	55199	Seq. ID	OJ000112_06.0426.C11
Gene No.	115671	Strand	-
Start	11242	End	11650
Name	OJ000112_06.0426.C11.o1.tc	Method	TBLASTX:Cress
Start	5614	End	5856
GI	none	Score	67
Exons	5614..5670, 5685..5837, 5686..5856		

Seq. No.	55199	Seq. ID	OJ000112_06.0426.C11
Gene No.	115671	Strand	-
Start	11242	End	11650
Name	OJ000112_06.0426.C11.o1.ts	Method	TBLASTX:Soybean
Start	5614	End	5856
GI	none	Score	65
Exons	5614..5664, 5686..5856		

Seq. No.	55199	Seq. ID	OJ000112_06.0426.C11
Gene No.	115671	Strand	-
Start	11242	End	11650
Name	OJ000112_06.0426.C11.o1.tw	Method	TBLASTX:Wheat
Start	5686	End	5868
GI	none	Score	180
Exons	5686..5856, 5725..5868		

Seq. No.	55199	Seq. ID	OJ000112_06.0426.C11
Gene No.	115671	Strand	-
Start	11242	End	11650
Name	OJ000112_06.0426.C11.o1.tm	Method	TBLASTX:Maize
Start	5688	End	5863
GI	none	Score	213
Exons	5688..5858, 5689..5856, 5725..5862, 5738..5863, 5795..5863		

Seq. No.	55199	Seq. ID	OJ000112_06.0426.C11
Gene No.	115671	Strand	-
Start	11242	End	11650
Name	OJ000112_06.0426.C11.o7.gs	Method	GENSCAN
Start	11242	End	11650
GI	none	Score	.64
Exons	11242..11361, 11543..11650		

Seq. No.	55200	Seq. ID	OJ000112_06.0426.C12
Gene No.	115672	Strand	+
Start	1548	End	3447
Name	OJ000112_06.0426.C12.o1.gs	Method	GENSCAN
Start	1548	End	3447
GI	none	Score	.45
Exons	1548..1613, 1768..1882, 3320..3447		

Seq. No.	55200	Seq. ID	OJ000112_06.0426.C12
Gene No.	115673	Strand	+
Start	5039	End	5159
Name	OJ000112_06.0426.C12.o1.np	Method	AAT/NAP
Start	5039	End	5159
GI	6815099	Score	85
Exons	5039..5159		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	55200	Seq. ID	OJ000112_06.0426.C12
Gene No.	115674	Strand	-
Start	5365	End	5825
Name	OJ000112_06.0426.C12.o2.gs	Method	GENSCAN
Start	5365	End	5825
GI	none	Score	.64
Exons	5365..5825		

Seq. No.	55201	Seq. ID	OJ000112_02.0426.C1
Gene No.	115675	Strand	+
Start	807	End	1064
Name	OJ000112_02.0426.C1.o1.gs	Method	GENSCAN
Start	807	End	1064
GI	none	Score	.41
Exons	807..913, 955..1064		

Seq. No.	55202	Seq. ID	OJ000112_02.0426.C3
Gene No.	115676	Strand	+
Start	1	End	1855
Name	OJ000112_02.0426.C3.o1.np	Method	AAT/NAP
Start	1	End	1852
GI	7489805	Score	1189
Exons	1..1852		
GI Descrip.	polyprotein - maize retrotransposon Cinful-1 gi|4206306|gb|AAD11615.1| (AF049110) prpol [Zea mays]		

Seq. No.	55202	Seq. ID	OJ000112_02.0426.C3
Gene No.	115676	Strand	+
Start	1	End	1855
Name	OJ000112_02.0426.C3.o1.gs	Method	GENSCAN
Start	181	End	1855
GI	none	Score	.41
Exons	181..895, 1088..1421, 1445..1855		

Seq. No.	55202	Seq. ID	OJ000112_02.0426.C3
Gene No.	115677	Strand	+
Start	5679	End	5852
Name	OJ000112_02.0426.C3.o3.gp	Method	AAT/GAP
Start	5570	End	5818
GI	101153_1.R1084	Score	350
Exons	5570..5818		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 1.0e-115 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	55202	Seq. ID	OJ000112_02.0426.C3
Gene No.	115677	Strand	+
Start	5679	End	5852
Name	OJ000112_02.0426.C3.o3.gs	Method	GENSCAN
Start	5679	End	5852
GI	none	Score	.87
Exons	5679..5852		

Seq. No.	55202	Seq. ID	OJ000112_02.0426.C3
Gene No.	115678	Strand	-
Start	2410	End	2902
Name	OJ000112_02.0426.C3.o2.gs	Method	GENSCAN

Start	2410	End	2902
GI	none	Score	.57
Exons	2410..2536, 2622..2902		

Seq. No.	55202	Seq. ID	OJ000112_02.0426.C3
Gene No.	115679	Strand	-
Start	4950	End	9013
Name	OJ000112_02.0426.C3.o1.tw	Method	TBLASTX:Wheat
Start	86	End	497
GI	none	Score	116
Exons	86..172, 88..171, 171..497, 293..436		

Seq. No.	55202	Seq. ID	OJ000112_02.0426.C3
Gene No.	115679	Strand	-
Start	4950	End	9013
Name	OJ000112_02.0426.C3.o1.tm	Method	TBLASTX:Maize
Start	693	End	1040
GI	none	Score	297
Exons	693..1040, 791..1039		

Seq. No.	55202	Seq. ID	OJ000112_02.0426.C3
Gene No.	115679	Strand	-
Start	4950	End	9013
Name	OJ000112_02.0426.C3.o2.tw	Method	TBLASTX:Wheat
Start	801	End	1160
GI	none	Score	171
Exons	801..1052, 1104..1160		

Seq. No.	55202	Seq. ID	OJ000112_02.0426.C3
Gene No.	115679	Strand	-
Start	4950	End	9013
Name	OJ000112_02.0426.C3.o2.tm	Method	TBLASTX:Maize
Start	1088	End	1279
GI	none	Score	194
Exons	1088..1237, 1089..1232, 1232..1279		

Seq. No.	55202	Seq. ID	OJ000112_02.0426.C3
Gene No.	115679	Strand	-
Start	4950	End	9013
Name	OJ000112_02.0426.C3.o2.np	Method	AAT/NAP
Start	4950	End	6671
GI	6063554	Score	169
Exons	4950..5129, 5770..5800, 6443..6671		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	55202	Seq. ID	OJ000112_02.0426.C3
Gene No.	115679	Strand	-
Start	4950	End	9013
Name	OJ000112_02.0426.C3.o4.gs	Method	GENSCAN
Start	6288	End	9013
GI	none	Score	.9
Exons	6288..6693, 6807..6862, 6993..7040, 8921..9013		

Seq. No.	55203	Seq. ID	OJ000112_02.0426.C4
Gene No.	115680	Strand	+

Start	1	End	2332
Name	OJ000112_02.0426.C4.o1.np	Method	AAT/NAP
Start	1	End	2332
GI	6063554	Score	191
Exons	1..21, 178..355, 634..887, 2090..2254, 2306..2332		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	55203	Seq. ID	OJ000112_02.0426.C4
Gene No.	115680	Strand	+
Start	1	End	2332
Name	OJ000112_02.0426.C4.o1.gp	Method	AAT/GAP
Start	132	End	478
GI	3061198	Score	661
Exons	132..478		

Seq. No.	55203	Seq. ID	OJ000112_02.0426.C4
Gene No.	115680	Strand	+
Start	1	End	2332
Name	OJ000112_02.0426.C4.o1.gs	Method	GENSCAN
Start	452	End	1026
GI	none	Score	.48
Exons	452..550, 652..885, 947..1026		

Seq. No.	55203	Seq. ID	OJ000112_02.0426.C4
Gene No.	115681	Strand	-
Start	2154	End	2497
Name	OJ000112_02.0426.C4.o2.gs	Method	GENSCAN
Start	2154	End	2497
GI	none	Score	.74
Exons	2154..2497		

Seq. No.	55204	Seq. ID	OJ000112_02.0426.C5
Gene No.	115682	Strand	+
Start	104	End	1325
Name	OJ000112_02.0426.C5.o1.gs	Method	GENSCAN
Start	104	End	1325
GI	none	Score	.8
Exons	104..470, 697..1325		

Seq. No.	55204	Seq. ID	OJ000112_02.0426.C5
Gene No.	115683	Strand	+
Start	1356	End	1662
Name	OJ000112_02.0426.C5.o1.gp	Method	AAT/GAP
Start	1356	End	1662
GI	61605_3.R1084	Score	400
Exons	1356..1662		
GI Descrip.	'1402920/emb|CAA66965| 2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	55204	Seq. ID	OJ000112_02.0426.C5
Gene No.	115684	Strand	-
Start	3727	End	9106
Name	OJ000112_02.0426.C5.o1.np	Method	AAT/NAP
Start	2054	End	9106
GI	6063554	Score	205

Exons	2054..2227, 2860..2889, 4359..4575, 4690..4788, 4955..5097, 9070..9106		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		
Seq. No.	55204	Seq. ID	OJ000112_02.0426.C5
Gene No.	115684	Strand	-
Start	3727	End	9106
Name	OJ000112_02.0426.C5.o2.gs	Method	GENSCAN
Start	3727	End	5795
GI	none	Score	.79
Exons	3727..3859, 4121..4195, 4359..4416, 4483..4688, 5623..5795		
Seq. No.	55204	Seq. ID	OJ000112_02.0426.C5
Gene No.	115684	Strand	-
Start	3727	End	9106
Name	OJ000112_02.0426.C5.o2.ts	Method	TBLASTX:Soybean
Start	6119	End	6364
GI	none	Score	43
Exons	6119..6364, 6123..6152, 6192..6353		
Seq. No.	55204	Seq. ID	OJ000112_02.0426.C5
Gene No.	115684	Strand	-
Start	3727	End	9106
Name	OJ000112_02.0426.C5.o2.np	Method	AAT/NAP
Start	6125	End	7353
GI	4544372	Score	395
Exons	6125..7353		
GI Descrip.	(AC006920) putative retroelement pol polyprotein [Arabidopsis thaliana]		
Seq. No.	55204	Seq. ID	OJ000112_02.0426.C5
Gene No.	115684	Strand	-
Start	3727	End	9106
Name	OJ000112_02.0426.C5.o1.tw	Method	TBLASTX:Wheat
Start	6140	End	6550
GI	none	Score	64
Exons	6140..6550, 6174..6332		
Seq. No.	55204	Seq. ID	OJ000112_02.0426.C5
Gene No.	115684	Strand	-
Start	3727	End	9106
Name	OJ000112_02.0426.C5.o3.gs	Method	GENSCAN
Start	6242	End	8173
GI	none	Score	.4
Exons	6242..6681, 7376..7694, 8117..8173		
Seq. No.	55204	Seq. ID	OJ000112_02.0426.C5
Gene No.	115684	Strand	-
Start	3727	End	9106
Name	OJ000112_02.0426.C5.o3.np	Method	AAT/NAP
Start	6397	End	8001
GI	7248394	Score	137
Exons	6397..6438, 7801..8001		
GI Descrip.	(AP001389) ESTs C97394(C60113),AU075824(R0165),D38985(R0165) correspond to a region of the predicted gene.~Similar to		

Arabidopsis thaliana chromosome II BAC F15O11 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)

Seq. No.	55204	Seq. ID	OJ000112_02.0426.C5
Gene No.	115684	Strand	-
Start	3727	End	9106
Name	OJ000112_02.0426.C5.o3.ts	Method	TBLASTX:Soybean
Start	6879	End	7160
GI	none	Score	185
Exons	6879..7160		

Seq. No.	55204	Seq. ID	OJ000112_02.0426.C5
Gene No.	115684	Strand	-
Start	3727	End	9106
Name	OJ000112_02.0426.C5.o1.ts	Method	TBLASTX:Soybean
Start	7528	End	7939
GI	none	Score	59
Exons	7528..7635, 7530..7673, 7695..7781, 7697..7780, 7802..7939, 7806..7931		

Seq. No.	55205	Seq. ID	OJ000112_02.0426.C6
Gene No.	115685	Strand	+
Start	275	End	3544
Name	OJ000112_02.0426.C6.o1.np	Method	AAT/NAP
Start	275	End	3544
GI	7523686	Score	125
Exons	275..869, 3513..3544		
GI Descrip.	(AC009526) Similar to Athila ORF 1 [Arabidopsis thaliana]		

Seq. No.	55205	Seq. ID	OJ000112_02.0426.C6
Gene No.	115685	Strand	+
Start	275	End	3544
Name	OJ000112_02.0426.C6.o1.gs	Method	GENSCAN
Start	784	End	2814
GI	none	Score	.53
Exons	784..908, 1202..1610, 2125..2272, 2304..2435, 2721..2814		

Seq. No.	55205	Seq. ID	OJ000112_02.0426.C6
Gene No.	115686	Strand	+
Start	9904	End	12581
Name	OJ000112_02.0426.C6.o3.gs	Method	GENSCAN
Start	9904	End	12581
GI	none	Score	.44
Exons	9904..10105, 10355..10486, 10492..10656, 11705..11917, 12057..12168, 12195..12581		

Seq. No.	55205	Seq. ID	OJ000112_02.0426.C6
Gene No.	115687	Strand	-
Start	10196	End	12655
Name	OJ000112_02.0426.C6.o2.np	Method	AAT/NAP
Start	10196	End	12655
GI	7489805	Score	82
Exons	10196..10327, 11700..11924, 12637..12655		
GI Descrip.	polyprotein - maize retrotransposon Cinful-1 gi|4206306|gb|AAD11615.1| (AF049110) prpol [Zea mays]		

Seq. No.	55206	Seq. ID	OJ000112_02.0426.C7
Gene No.	115688	Strand	+
Start	1	End	8609
Name	OJ000112_02.0426.C7.o2.np	Method	AAT/NAP
Start	1	End	8609
GI	5852175	Score	84
Exons	1..22, 1542..1709, 2349..2405, 2984..3078, 8575..8609		
GI Descrip.	(AL117265) zhb0005.1 [Oryza sativa]		

Seq. No.	55206	Seq. ID	OJ000112_02.0426.C7
Gene No.	115688	Strand	+
Start	1	End	8609
Name	OJ000112_02.0426.C7.o1.gs	Method	GENSCAN
Start	285	End	473
GI	none	Score	.66
Exons	285..473		

Seq. No.	55206	Seq. ID	OJ000112_02.0426.C7
Gene No.	115688	Strand	+
Start	1	End	8609
Name	OJ000112_02.0426.C7.o1.gp	Method	AAT/GAP
Start	1869	End	2602
GI	101153_1.R1084	Score	351
Exons	1869..1898, 2358..2602		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 1.0e-115 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	55206	Seq. ID	OJ000112_02.0426.C7
Gene No.	115688	Strand	+
Start	1	End	8609
Name	OJ000112_02.0426.C7.o2.gp	Method	AAT/GAP
Start	3177	End	3852
GI	3761363	Score	486
Exons	3177..3482, 3815..3852		
GI Descrip.	5852170/emb|AL117265.1|OST17804 1.0e-151 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804		

Seq. No.	55206	Seq. ID	OJ000112_02.0426.C7
Gene No.	115689	Strand	-
Start	32	End	3031
Name	OJ000112_02.0426.C7.o1.np	Method	AAT/NAP
Start	32	End	1964
GI	5852179	Score	215
Exons	32..74, 1443..1674, 1748..1964		
GI Descrip.	(AL117265) zhb0009.1 [Oryza sativa]		

Seq. No.	55206	Seq. ID	OJ000112_02.0426.C7
Gene No.	115689	Strand	-
Start	32	End	3031
Name	OJ000112_02.0426.C7.o2.gs	Method	GENSCAN
Start	1359	End	3031
GI	none	Score	.61
Exons	1359..1831, 2950..3031		

Seq. No.	55206	Seq. ID	OJ000112_02.0426.C7
Gene No.	115690	Strand	-
Start	3978	End	4055

Name	OJ000112_02.0426.C7.o3.np	Method	AAT/NAP
Start	3978	End	4055
GI	6721516	Score	64
Exons	3978..4055		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	55206	Seq. ID	OJ000112_02.0426.C7
Gene No.	115691	Strand	-
Start	6251	End	7357
Name	OJ000112_02.0426.C7.o3.gs	Method	GENSCAN
Start	6251	End	7357
GI	none	Score	.99
Exons	6251..6466, 6956..7357		

Seq. No.	55207	Seq. ID	OJ000112_02.0426.C8
Gene No.	115692	Strand	+
Start	10032	End	12242
Name	OJ000112_02.0426.C8.o2.gs	Method	GENSCAN
Start	10032	End	12242
GI	none	Score	.48
Exons	10032..10436, 11749..12060, 12066..12242		

Seq. No.	55207	Seq. ID	OJ000112_02.0426.C8
Gene No.	115693	Strand	+
Start	13980	End	16930
Name	OJ000112_02.0426.C8.o4.np	Method	AAT/NAP
Start	13980	End	16930
GI	7228448	Score	132
Exons	13980..14057, 14848..14941, 15047..15138, 15216..15397, 16912..16930		
GI Descrip.	(AP001366) ESTs AU068685(C30691),AU068684(C30691) correspond to a region of the predicted gene.; Similar to Genomic sequence for Arabidopsis thaliana BAC F21J9, F21J9.24. (AC000103) [Oryza sativa]		

Seq. No.	55207	Seq. ID	OJ000112_02.0426.C8
Gene No.	115693	Strand	+
Start	13980	End	16930
Name	OJ000112_02.0426.C8.o3.np	Method	AAT/NAP
Start	14202	End	16551
GI	7106516	Score	145
Exons	14202..14360, 16470..16551		
GI Descrip.	(AP001278) hypothetical protein [Oryza sativa]		

Seq. No.	55207	Seq. ID	OJ000112_02.0426.C8
Gene No.	115693	Strand	+
Start	13980	End	16930
Name	OJ000112_02.0426.C8.o1.gp	Method	AAT/GAP
Start	16631	End	16912
GI	31877_1.R1084	Score	220
Exons	16631..16700, 16835..16912		
GI Descrip.	'4521193/dbj|AB013450.1|AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene'		

Seq. No.	55207	Seq. ID	OJ000112_02.0426.C8
Gene No.	115694	Strand	+
Start	20429	End	21949

Name	OJ000112_02.0426.C8.o5.np	Method	AAT/NAP
Start	20429	End	21949
GI	7248394	Score	1926
Exons	20429..21077, 21121..21402, 21673..21949		
GI Descrip.	(AP001389) ESTs C97394(C60113),AU075824(R0165),D38985(R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15O11 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)		

Seq. No.	55207	Seq. ID	OJ000112_02.0426.C8
Gene No.	115695	Strand	-
Start	2098	End	7991
Name	OJ000112_02.0426.C8.o1.gs	Method	GENSCAN
Start	2098	End	7991
GI	none	Score	.49
Exons	2098..2613, 2906..3053, 3480..3568, 3822..4018, 4105..4209, 4221..4609, 4652..4733, 4773..5009, 5530..5737, 5804..6010, 6182..6286, 6344..6516, 7769..7991		

Seq. No.	55207	Seq. ID	OJ000112_02.0426.C8
Gene No.	115695	Strand	-
Start	2098	End	7991
Name	OJ000112_02.0426.C8.o1.np	Method	AAT/NAP
Start	2712	End	6324
GI	4325357	Score	406
Exons	2712..2809, 4054..4515, 5760..6324		
GI Descrip.	(AF128395) contains similarity to Arabidopsis thaliana retrotransposon Athila hypothetical protein 1 (GB:X81801) [Arabidopsis thaliana]		

Seq. No.	55207	Seq. ID	OJ000112_02.0426.C8
Gene No.	115696	Strand	-
Start	10519	End	13131
Name	OJ000112_02.0426.C8.o2.np	Method	AAT/NAP
Start	10519	End	13131
GI	5852179	Score	274
Exons	10519..10586, 11779..12011, 12086..12286, 13111..13131		
GI Descrip.	(AL117265) zhb0009.1 [Oryza sativa]		

Seq. No.	55207	Seq. ID	OJ000112_02.0426.C8
Gene No.	115697	Strand	-
Start	14084	End	18534
Name	OJ000112_02.0426.C8.o3.tw	Method	TBLASTX:Wheat
Start	4231	End	4596
GI	none	Score	80
Exons	4231..4404, 4232..4393, 4453..4596		

Seq. No.	55207	Seq. ID	OJ000112_02.0426.C8
Gene No.	115697	Strand	-
Start	14084	End	18534
Name	OJ000112_02.0426.C8.o1.tc	Method	TBLASTX:Cress
Start	5789	End	6091
GI	none	Score	195
Exons	5789..6091		

Seq. No.	55207	Seq. ID	OJ000112_02.0426.C8

Gene No.	115697	Strand	-
Start	14084	End	18534
Name	OJ000112_02.0426.C8.o2.tw	Method	TBLASTX:Wheat
Start	5816	End	18510
GI	none	Score	98
Exons	5816..5923, 5897..6112, 6128..6244, 18370..18510		

Seq. No.	55207	Seq. ID	OJ000112_02.0426.C8
Gene No.	115697	Strand	-
Start	14084	End	18534
Name	OJ000112_02.0426.C8.o2.ts	Method	TBLASTX:Soybean
Start	5834	End	18534
GI	none	Score	77
Exons	5834..6112, 6140..6244, 18355..18534		

Seq. No.	55207	Seq. ID	OJ000112_02.0426.C8
Gene No.	115697	Strand	-
Start	14084	End	18534
Name	OJ000112_02.0426.C8.o3.gs	Method	GENSCAN
Start	14084	End	14736
GI	none	Score	.83
Exons	14084..14128, 14320..14432, 14456..14520, 14624..14736		

Seq. No.	55207	Seq. ID	OJ000112_02.0426.C8
Gene No.	115698	Strand	
Start	19041	End	19409
Name	OJ000112_02.0426.C8.o2.tm	Method	TBLASTX:Maize
Start	19041	End	19409
GI	none	Score	157
Exons	19041..19166, 19058..19165, 19191..19409, 19196..19312		

Seq. No.	55207	Seq. ID	OJ000112_02.0426.C8
Gene No.	115699	Strand	
Start	21372	End	21943
Name	OJ000112_02.0426.C8.o1.ts	Method	TBLASTX:Soybean
Start	21372	End	21740
GI	none	Score	148
Exons	21372..21590, 21606..21740		

Seq. No.	55207	Seq. ID	OJ000112_02.0426.C8
Gene No.	115699	Strand	
Start	21372	End	21943
Name	OJ000112_02.0426.C8.o1.tw	Method	TBLASTX:Wheat
Start	21534	End	21943
GI	none	Score	623
Exons	21534..21941, 21542..21943, 21551..21874, 21660..21890		

Seq. No.	55207	Seq. ID	OJ000112_02.0426.C8
Gene No.	115699	Strand	
Start	21372	End	21943
Name	OJ000112_02.0426.C8.o1.tm	Method	TBLASTX:Maize
Start	21594	End	21856
GI	none	Score	383
Exons	21594..21854, 21596..21856		

Seq. No.	55208	Seq. ID	OJ000112_02.0426.C9
Gene No.	115700	Strand	+

Start	1319	End	2524
Name	OJ000112_02.0426.C9.o1.np	Method	AAT/NAP
Start	1319	End	2524
GI	6997177	Score	922
Exons	1319..2524		
GI Descrip.	(AC023839) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55208	Seq. ID	OJ000112_02.0426.C9
Gene No.	115701	Strand	-
Start	4863	End	8673
Name	OJ000112_02.0426.C9.o2.tm	Method	TBLASTX:Maize
Start	1441	End	2097
GI	none	Score	336
Exons	1441..1896, 1461..1733, 1645..1863, 1791..1898, 1900..1932, 1950..2009, 1951..2004, 1951..2010, 2005..2097, 2007..2096		

Seq. No.	55208	Seq. ID	OJ000112_02.0426.C9
Gene No.	115701	Strand	-
Start	4863	End	8673
Name	OJ000112_02.0426.C9.o2.tw	Method	TBLASTX:Wheat
Start	1447	End	1755
GI	none	Score	227
Exons	1447..1755, 1455..1730		

Seq. No.	55208	Seq. ID	OJ000112_02.0426.C9
Gene No.	115701	Strand	-
Start	4863	End	8673
Name	OJ000112_02.0426.C9.o1.tw	Method	TBLASTX:Wheat
Start	1756	End	2172
GI	none	Score	196
Exons	1756..1929, 1776..1928, 1936..2172, 1953..2171		

Seq. No.	55208	Seq. ID	OJ000112_02.0426.C9
Gene No.	115701	Strand	-
Start	4863	End	8673
Name	OJ000112_02.0426.C9.o4.tm	Method	TBLASTX:Maize
Start	2101	End	2356
GI	none	Score	172
Exons	2101..2268, 2104..2265, 2291..2356, 2297..2353		

Seq. No.	55208	Seq. ID	OJ000112_02.0426.C9
Gene No.	115701	Strand	-
Start	4863	End	8673
Name	OJ000112_02.0426.C9.o3.tm	Method	TBLASTX:Maize
Start	2366	End	2578
GI	none	Score	105
Exons	2366..2458, 2395..2442, 2447..2575, 2458..2577, 2483..2578		

Seq. No.	55208	Seq. ID	OJ000112_02.0426.C9
Gene No.	115701	Strand	-
Start	4863	End	8673
Name	OJ000112_02.0426.C9.o2.gs	Method	GENSCAN
Start	4863	End	8673
GI	none	Score	.77
Exons	4863..5052, 5139..5284, 8467..8673		

Seq. No.	55208	Seq. ID	OJ000112_02.0426.C9

Gene No.	115701	Strand	-
Start	4863	End	8673
Name	OJ000112_02.0426.C9.o2.np	Method	AAT/NAP
Start	4863	End	8646
GI	6831735	Score	454
Exons	4863..5052, 5139..5284, 8467..8646		
GI Descrip.	HYPOTHETICAL PROTEIN CGI-137 gi|4929743|gb|AAD34132.1|AF151895_1 (AF151895) CGI-137 protein [Homo sapiens] gi|6523801|gb|AAF14860.1|AF110777_1 (AF110777) adrenal gland protein AD-004 [Homo sapiens]		

Seq. No.	55208	Seq. ID	OJ000112_02.0426.C9
Gene No.	115701	Strand	-
Start	4863	End	8673
Name	OJ000112_02.0426.C9.o1.tm	Method	TBLASTX:Maize
Start	4872	End	8658
GI	none	Score	219
Exons	4872..5054, 4877..5056, 4878..5054, 5138..5284, 5145..5231, 5147..5284, 8464..8658, 8531..8638		

Seq. No.	55208	Seq. ID	OJ000112_02.0426.C9
Gene No.	115701	Strand	-
Start	4863	End	8673
Name	OJ000112_02.0426.C9.o1.ts	Method	TBLASTX:Soybean
Start	4872	End	8649
GI	none	Score	116
Exons	4872..5075, 4881..5054, 5131..5232, 5138..5284, 5138..5284, 5146..5286, 8464..8649		

Seq. No.	55208	Seq. ID	OJ000112_02.0426.C9
Gene No.	115701	Strand	-
Start	4863	End	8673
Name	OJ000112_02.0426.C9.o1.tc	Method	TBLASTX:Cress
Start	4875	End	8658
GI	none	Score	66
Exons	4875..4895, 4920..5057, 5177..5284, 5181..5231, 8461..8658		

Seq. No.	55209	Seq. ID	OJ000112_02.0426.C10
Gene No.	115702	Strand	+
Start	1116	End	4618
Name	OJ000112_02.0426.C10.o2.tw	Method	TBLASTX:Wheat
Start	1056	End	1495
GI	none	Score	127
Exons	1056..1298, 1298..1495		

Seq. No.	55209	Seq. ID	OJ000112_02.0426.C10
Gene No.	115702	Strand	+
Start	1116	End	4618
Name	OJ000112_02.0426.C10.o1.gs	Method	GENSCAN
Start	1116	End	4582
GI	none	Score	.9
Exons	1116..1123, 1271..1348, 1445..1592, 3436..3516, 3614..3712, 3811..3900, 4333..4396, 4482..4582		

Seq. No.	55209	Seq. ID	OJ000112_02.0426.C10
Gene No.	115702	Strand	+
Start	1116	End	4618

Name	OJ000112_02.0426.C10.o2.tm	Method	TBLASTX:Maize
Start	1762	End	2142
GI	none	Score	83
Exons	1762..1872, 1951..2142, 1952..2083, 1957..2103		

Seq. No.	55209	Seq. ID	OJ000112_02.0426.C10
Gene No.	115702	Strand	+
Start	1116	End	4618
Name	OJ000112_02.0426.C10.o1.tw	Method	TBLASTX:Wheat
Start	1774	End	2175
GI	none	Score	110
Exons	1774..1902, 1879..2175, 1895..2080		

Seq. No.	55209	Seq. ID	OJ000112_02.0426.C10
Gene No.	115702	Strand	+
Start	1116	End	4618
Name	OJ000112_02.0426.C10.o1.tm	Method	TBLASTX:Maize
Start	2769	End	4610
GI	none	Score	146
Exons	2769..2921, 2779..2931, 2780..3073, 2888..3118, 2946..3119, 3057..3119, 3436..3519, 3440..3520, 3441..3533, 3566..3715, 3605..3712, 3606..3713, 3613..3717, 3613..3714, 3808..3906, 3810..3899, 4332..4403, 4334..4396, 4342..4398, 4481..4585, 4484..4582, 4485..4610, 4488..4583		

Seq. No.	55209	Seq. ID	OJ000112_02.0426.C10
Gene No.	115702	Strand	+
Start	1116	End	4618
Name	OJ000112_02.0426.C10.o1.gp	Method	AAT/GAP
Start	2771	End	2926
GI	none	Score	280
Exons	2771..2926		

Seq. No.	55209	Seq. ID	OJ000112_02.0426.C10
Gene No.	115702	Strand	+
Start	1116	End	4618
Name	OJ000112_02.0426.C10.o2.np	Method	AAT/NAP
Start	2798	End	4618
GI	6492245	Score	902
Exons	2798..3118, 3436..3516, 3614..3712, 3811..3900, 4333..4396, 4482..4618		
GI Descrip.	(AF109395) granule-bound starch synthase GBSSII [Triticum aestivum]		

Seq. No.	55209	Seq. ID	OJ000112_02.0426.C10
Gene No.	115702	Strand	+
Start	1116	End	4618
Name	OJ000112_02.0426.C10.o1.ts	Method	TBLASTX:Soybean
Start	3441	End	4585
GI	none	Score	137
Exons	3441..3521, 3442..3522, 3470..3532, 3566..3715, 3611..3715, 3613..3717, 3631..3717, 3633..3728, 3795..3899, 3808..3903, 3810..3908, 4480..4584, 4481..4585		

Seq. No.	55209	Seq. ID	OJ000112_02.0426.C10
Gene No.	115702	Strand	+
Start	1116	End	4618

Name	OJ000112_02.0426.C10.o2.gp	Method	AAT/GAP
Start	3482	End	4618
GI	4763_1.R1084	Score	643
Exons	3482..3517, 3616..3712, 3811..3900, 4333..4396, 4482..4618		
GI Descrip.	'3688123/emb|CAA06958| 0.0e+00 (AJ006293) granule-bound starch synthase [Antirrhinum majus]'		

Seq. No.	55210	Seq. ID	OJ000112_02.0426.C11
Gene No.	115703	Strand	+
Start	1	End	75
Name	OJ000112_02.0426.C11.o1.np	Method	AAT/NAP
Start	1	End	75
GI	6492245	Score	122
Exons	1..75		
GI Descrip.	(AF109395) granule-bound starch synthase GBSSII [Triticum aestivum]		

Seq. No.	55210	Seq. ID	OJ000112_02.0426.C11
Gene No.	115704	Strand	-
Start	1	End	700
Name	OJ000112_02.0426.C11.o1.gp	Method	AAT/GAP
Start	1	End	700
GI	4763_1.R1084	Score	1383
Exons	1..700		
GI Descrip.	'3688123/emb|CAA06958| 0.0e+00 (AJ006293) granule-bound starch synthase [Antirrhinum majus]'		

Seq. No.	55210	Seq. ID	OJ000112_02.0426.C11
Gene No.	115705	Strand	-
Start	2744	End	3251
Name	OJ000112_02.0426.C11.o1.tm	Method	TBLASTX:Maize
Start	686	End	1200
GI	none	Score	90
Exons	686..724, 760..879, 895..1200, 1037..1195		

Seq. No.	55210	Seq. ID	OJ000112_02.0426.C11
Gene No.	115705	Strand	-
Start	2744	End	3251
Name	OJ000112_02.0426.C11.o1.tw	Method	TBLASTX:Wheat
Start	1072	End	1450
GI	none	Score	101
Exons	1072..1203, 1217..1450		

Seq. No.	55210	Seq. ID	OJ000112_02.0426.C11
Gene No.	115705	Strand	-
Start	2744	End	3251
Name	OJ000112_02.0426.C11.o2.gs	Method	GENSCAN
Start	2744	End	3251
GI	none	Score	.66
Exons	2744..2812, 2876..2951, 3211..3251		

Seq. No.	55211	Seq. ID	OJ000112_02.0426.C12
Gene No.	115706	Strand	-
Start	538	End	1643
Name	OJ000112_02.0426.C12.o2.ts	Method	TBLASTX:Soybean
Start	3	End	395
GI	none	Score	93

Exons	3..395, 100..294, 117..362		
Seq. No.	55211	Seq. ID	OJ000112_02.0426.C12
Gene No.	115706	Strand	-
Start	538	End	1643
Name	OJ000112_02.0426.C12.o1.tm	Method	TBLASTX:Maize
Start	21	End	401
GI	none	Score	80
Exons	21..224, 243..401		
Seq. No.	55211	Seq. ID	OJ000112_02.0426.C12
Gene No.	115706	Strand	-
Start	538	End	1643
Name	OJ000112_02.0426.C12.o1.np	Method	AAT/NAP
Start	538	End	1643
GI	7248394	Score	619
Exons	538..939, 1376..1643		
GI Descrip.	(AP001389) ESTs C97394(C60113),AU075824(R0165),D38985(R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15O11 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)		
Seq. No.	55211	Seq. ID	OJ000112_02.0426.C12
Gene No.	115706	Strand	-
Start	538	End	1643
Name	OJ000112_02.0426.C12.o1.tw	Method	TBLASTX:Wheat
Start	1061	End	1495
GI	none	Score	35
Exons	1061..1351, 1146..1247, 1278..1352, 1406..1495		
Seq. No.	55211	Seq. ID	OJ000112_02.0426.C12
Gene No.	115706	Strand	-
Start	538	End	1643
Name	OJ000112_02.0426.C12.o1.ts	Method	TBLASTX:Soybean
Start	1124	End	1541
GI	none	Score	76
Exons	1124..1366, 1128..1241, 1281..1367, 1397..1540, 1403..1540, 1407..1541		
Seq. No.	55212	Seq. ID	OJ000112_02.0426.C17
Gene No.	115707	Strand	-
Start	1	End	3682
Name	OJ000112_02.0426.C17.o1.np	Method	AAT/NAP
Start	1	End	3612
GI	3928871	Score	927
Exons	1..429, 514..679, 1687..1873, 1999..2048, 3469..3612		
GI Descrip.	(AF093627) poly(ADP)-ribose polymerase [Zea mays]		
Seq. No.	55212	Seq. ID	OJ000112_02.0426.C17
Gene No.	115707	Strand	-
Start	1	End	3682
Name	OJ000112_02.0426.C17.o1.tm	Method	TBLASTX:Maize
Start	113	End	271
GI	none	Score	184
Exons	113..271, 114..269		

Seq. No.	55212	Seq. ID	OJ000112_02.0426.C17
Gene No.	115707	Strand	-
Start	1	End	3682
Name	OJ000112_02.0426.C17.o1.gs	Method	GENSCAN
Start	128	End	3682
GI	none	Score	.77
Exons	128..435, 514..679, 1687..1873, 2021..2048, 3469..3682		

Seq. No.	55212	Seq. ID	OJ000112_02.0426.C17
Gene No.	115707	Strand	-
Start	1	End	3682
Name	OJ000112_02.0426.C17.o1.gp	Method	AAT/GAP
Start	583	End	1297
GI	4107140	Score	1208
Exons	583..1297		

Seq. No.	55213	Seq. ID	OJ000112_02.0426.C18
Gene No.	115708	Strand	-
Start	771	End	2481
Name	OJ000112_02.0426.C18.o1.np	Method	AAT/NAP
Start	771	End	2481
GI	5042463	Score	86
Exons	771..867, 913..1055, 2399..2481		
GI Descrip.	(AC007789) unknown protein [Oryza sativa]		

Seq. No.	55214	Seq. ID	OJ000112_02.0426.C19
Gene No.	115709	Strand	+
Start	1	End	3732
Name	OJ000112_02.0426.C19.o2.np	Method	AAT/NAP
Start	1	End	3732
GI	6691716	Score	1095
Exons	1..47, 2139..2263, 2340..2515, 2593..2780, 2855..2955, 3106..3221, 3284..3732		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi|6691717|dbj|BAA89397.1| (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	55214	Seq. ID	OJ000112_02.0426.C19
Gene No.	115710	Strand	-
Start	670	End	1911
Name	OJ000112_02.0426.C19.o1.np	Method	AAT/NAP
Start	670	End	1911
GI	6691716	Score	1441
Exons	670..829, 1027..1911		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi|6691717|dbj|BAA89397.1| (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	55214	Seq. ID	OJ000112_02.0426.C19
Gene No.	115711	Strand	-
Start	4073	End	10181
Name	OJ000112_02.0426.C19.o3.gs	Method	GENSCAN
Start	4073	End	10181
GI	none	Score	.61
Exons	4073..4650, 4744..4885, 5330..5670, 5711..5894, 6108..6785, 6883..7080, 7618..8624, 8783..9332, 9473..9572, 9574..10181		

Seq. No.	55214	Seq. ID	OJ000112_02.0426.C19
Gene No.	115711	Strand	-
Start	4073	End	10181
Name	OJ000112_02.0426.C19.o3.np	Method	AAT/NAP
Start	4109	End	10181
GI	5922631	Score	6693
Exons	4109..6637, 7245..8171, 8298..8449, 8492..9061, 9095..9304, 9563..9798, 10057..10181		
GI Descrip.	(AP000492) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; similar to prpol; Zea mays retrotransposon Cinful-1. (AF049110) [Oryza sativa] gi|6016864|dbj|BAA85207.1| (AP000570) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; Similar to prpol; Zea mays retrotransposon Cinful-1. (AF049110) [Oryza sativ		

Seq. No.	55214	Seq. ID	OJ000112_02.0426.C19
Gene No.	115712	Strand	-
Start	10670	End	10845
Name	OJ000112_02.0426.C19.o9.tw	Method	TBLASTX:Wheat
Start	1501	End	1818
GI	none	Score	212
Exons	1501..1818		

Seq. No.	55214	Seq. ID	OJ000112_02.0426.C19
Gene No.	115712	Strand	-
Start	10670	End	10845
Name	OJ000112_02.0426.C19.o3.tw	Method	TBLASTX:Wheat
Start	4103	End	4699
GI	none	Score	88
Exons	4103..4222, 4208..4699, 4437..4544, 4611..4679		

Seq. No.	55214	Seq. ID	OJ000112_02.0426.C19
Gene No.	115712	Strand	-
Start	10670	End	10845
Name	OJ000112_02.0426.C19.o4.tm	Method	TBLASTX:Maize
Start	4124	End	4378
GI	none	Score	105
Exons	4124..4225, 4125..4226, 4205..4378, 4206..4280		

Seq. No.	55214	Seq. ID	OJ000112_02.0426.C19
Gene No.	115712	Strand	-
Start	10670	End	10845
Name	OJ000112_02.0426.C19.o5.tm	Method	TBLASTX:Maize
Start	4469	End	4742
GI	none	Score	45
Exons	4469..4555, 4568..4648, 4578..4652, 4635..4742, 4643..4741		

Seq. No.	55214	Seq. ID	OJ000112_02.0426.C19
Gene No.	115712	Strand	-
Start	10670	End	10845
Name	OJ000112_02.0426.C19.o4.tw	Method	TBLASTX:Wheat
Start	4812	End	5201
GI	none	Score	56
Exons	4812..4859, 4814..4999, 4814..5200, 4890..5201		

Seq. No.	55214	Seq. ID	OJ000112_02.0426.C19

Gene No.	115712	Strand	-
Start	10670	End	10845
Name	OJ000112_02.0426.C19.o1.tm	Method	TBLASTX:Maize
Start	4844	End	5206
GI	none	Score	237
Exons	4844..4891, 4883..5206, 4896..5186		

Seq. No.	55214	Seq. ID	OJ000112_02.0426.C19
Gene No.	115712	Strand	-
Start	10670	End	10845
Name	OJ000112_02.0426.C19.o10.tw	Method	TBLASTX:Wheat
Start	5204	End	5503
GI	none	Score	83
Exons	5204..5302, 5356..5493, 5360..5500, 5369..5503		

Seq. No.	55214	Seq. ID	OJ000112_02.0426.C19
Gene No.	115712	Strand	-
Start	10670	End	10845
Name	OJ000112_02.0426.C19.o5.tw	Method	TBLASTX:Wheat
Start	5517	End	5942
GI	none	Score	87
Exons	5517..5711, 5519..5719, 5715..5942, 5725..5937		

Seq. No.	55214	Seq. ID	OJ000112_02.0426.C19
Gene No.	115712	Strand	-
Start	10670	End	10845
Name	OJ000112_02.0426.C19.o2.ts	Method	TBLASTX:Soybean
Start	5564	End	5942
GI	none	Score	78
Exons	5564..5686, 5733..5807, 5847..5942		

Seq. No.	55214	Seq. ID	OJ000112_02.0426.C19
Gene No.	115712	Strand	-
Start	10670	End	10845
Name	OJ000112_02.0426.C19.o6.tm	Method	TBLASTX:Maize
Start	5615	End	5888
GI	none	Score	114
Exons	5615..5731, 5718..5888		

Seq. No.	55214	Seq. ID	OJ000112_02.0426.C19
Gene No.	115712	Strand	-
Start	10670	End	10845
Name	OJ000112_02.0426.C19.o7.tw	Method	TBLASTX:Wheat
Start	5946	End	6227
GI	none	Score	70
Exons	5946..6227, 5947..6108, 6126..6218		

Seq. No.	55214	Seq. ID	OJ000112_02.0426.C19
Gene No.	115712	Strand	-
Start	10670	End	10845
Name	OJ000112_02.0426.C19.o1.ts	Method	TBLASTX:Soybean
Start	6177	End	6608
GI	none	Score	169
Exons	6177..6608, 6208..6561		

Seq. No.	55214	Seq. ID	OJ000112_02.0426.C19
Gene No.	115712	Strand	-

Start	10670	End	10845
Name	OJ000112_02.0426.C19.o1.tw	Method	TBLASTX:Wheat
Start	6232	End	6657
GI	none	Score	301
Exons	6232..6657, 6237..6656		

Seq. No.	55214	Seq. ID	OJ000112_02.0426.C19
Gene No.	115712	Strand	-
Start	10670	End	10845
Name	OJ000112_02.0426.C19.o2.tm	Method	TBLASTX:Maize
Start	6330	End	6713
GI	none	Score	183
Exons	6330..6713, 6331..6675		

Seq. No.	55214	Seq. ID	OJ000112_02.0426.C19
Gene No.	115712	Strand	-
Start	10670	End	10845
Name	OJ000112_02.0426.C19.o3.tm	Method	TBLASTX:Maize
Start	6741	End	7098
GI	none	Score	52
Exons	6741..6842, 6751..6846, 6842..7057, 6843..7025, 6847..7098		

Seq. No.	55214	Seq. ID	OJ000112_02.0426.C19
Gene No.	115712	Strand	-
Start	10670	End	10845
Name	OJ000112_02.0426.C19.o2.tw	Method	TBLASTX:Wheat
Start	6771	End	7228
GI	none	Score	153
Exons	6771..6845, 6840..7037, 6841..7110, 6844..7227, 6851..7228		

Seq. No.	55214	Seq. ID	OJ000112_02.0426.C19
Gene No.	115712	Strand	-
Start	10670	End	10845
Name	OJ000112_02.0426.C19.o6.tw	Method	TBLASTX:Wheat
Start	7448	End	7905
GI	none	Score	156
Exons	7448..7684, 7450..7680, 7729..7905		

Seq. No.	55214	Seq. ID	OJ000112_02.0426.C19
Gene No.	115712	Strand	-
Start	10670	End	10845
Name	OJ000112_02.0426.C19.o8.tw	Method	TBLASTX:Wheat
Start	8485	End	8886
GI	none	Score	59
Exons	8485..8661, 8634..8885, 8824..8886		

Seq. No.	55214	Seq. ID	OJ000112_02.0426.C19
Gene No.	115712	Strand	-
Start	10670	End	10845
Name	OJ000112_02.0426.C19.o4.np	Method	AAT/NAP
Start	10670	End	10845
GI	5042463	Score	156
Exons	10670..10845		
GI Descrip.	(AC007789) unknown protein [Oryza sativa]		

Seq. No.	55215	Seq. ID	OJ000112_02.0426.C20
Gene No.	115713	Strand	-

Start	276	End	912
Name	OJ000112_02.0426.C20.o1.tm	Method	TBLASTX:Maize
Start	274	End	912
GI	none	Score	125
Exons	274..399, 276..404, 277..405, 468..575, 491..577, 491..577, 817..912, 827..910, 828..911		

Seq. No.	55215	Seq. ID	OJ000112_02.0426.C20
Gene No.	115713	Strand	-
Start	276	End	912
Name	OJ000112_02.0426.C20.o1.ts	Method	TBLASTX:Soybean
Start	274	End	912
GI	none	Score	57
Exons	274..363, 276..362, 276..404, 277..405, 462..578, 491..577, 814..912, 824..907		

Seq. No.	55215	Seq. ID	OJ000112_02.0426.C20
Gene No.	115713	Strand	-
Start	276	End	912
Name	OJ000112_02.0426.C20.o1.gs	Method	GENSCAN
Start	276	End	840
GI	none	Score	.83
Exons	276..404, 491..577, 826..840		

Seq. No.	55215	Seq. ID	OJ000112_02.0426.C20
Gene No.	115713	Strand	-
Start	276	End	912
Name	OJ000112_02.0426.C20.o1.np	Method	AAT/NAP
Start	276	End	912
GI	6492245	Score	369
Exons	276..404, 491..577, 826..912		
GI Descrip.	(AF109395) granule-bound starch synthase GBSSII [Triticum aestivum]		

Seq. No.	55215	Seq. ID	OJ000112_02.0426.C20
Gene No.	115713	Strand	-
Start	276	End	912
Name	OJ000112_02.0426.C20.o1.gp	Method	AAT/GAP
Start	550	End	868
GI	LIB3432-024-P1-K1-G1	Score	614
Exons	550..868		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 1.0e-151 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	55216	Seq. ID	OJ000112_09.0426.C1
Gene No.	115714	Strand	+
Start	499	End	10985
Name	OJ000112_09.0426.C1.o1.gs	Method	GENSCAN
Start	499	End	2901
GI	none	Score	.83
Exons	499..703, 1632..1712, 1839..1907, 2344..2407, 2591..2670, 2770..2901		

Seq. No.	55216	Seq. ID	OJ000112_09.0426.C1
Gene No.	115714	Strand	+
Start	499	End	10985
Name	OJ000112_09.0426.C1.o1.np	Method	AAT/NAP

Start	1836	End	10544
GI	6014701	Score	838
Exons	1836..1907, 2344..2411, 2595..2670, 2770..2853, 3025..3108, 3528..3612, 7379..7500, 8338..8398, 8474..8572, 10084..10185, 10264..10305, 10410..10544		
GI Descrip.	(AF190450) enoyl-CoA-hydratase [Avicennia marina]		

Seq. No.	55216	Seq. ID	OJ000112_09.0426.C1
Gene No.	115714	Strand	+
Start	499	End	10985
Name	OJ000112_09.0426.C1.o1.gp	Method	AAT/GAP
Start	2337	End	2694
GI	29362_1.R1084	Score	228
Exons	2337..2407, 2591..2694		
GI Descrip.	'2880043 1.0e-30 (AC002340) putative 3-hydroxyisobutyryl-coenzyme A hydrolase [Arabidopsis thaliana]'		

Seq. No.	55216	Seq. ID	OJ000112_09.0426.C1
Gene No.	115714	Strand	+
Start	499	End	10985
Name	OJ000112_09.0426.C1.o2.gp	Method	AAT/GAP
Start	3025	End	3612
GI	12453_1.R1084	Score	243
Exons	3025..3109, 3529..3612		
GI Descrip.	'6014701/gb|AAF01467.1|AF190450_1 1.0e-91 (AF190450) enoyl-CoA-hydratase [Avicennia marina]'		

Seq. No.	55216	Seq. ID	OJ000112_09.0426.C1
Gene No.	115714	Strand	+
Start	499	End	10985
Name	OJ000112_09.0426.C1.o3.gs	Method	GENSCAN
Start	6328	End	10547
GI	none	Score	.87
Exons	6328..6771, 7379..7500, 8338..8398, 8474..8659, 8805..8944, 10059..10185, 10410..10547		

Seq. No.	55216	Seq. ID	OJ000112_09.0426.C1
Gene No.	115714	Strand	+
Start	499	End	10985
Name	OJ000112_09.0426.C1.o4.gp	Method	AAT/GAP
Start	7379	End	8433
GI	12453_1.R1084	Score	295
Exons	7379..7500, 8338..8433		
GI Descrip.	'6014701/gb|AAF01467.1|AF190450_1 1.0e-91 (AF190450) enoyl-CoA-hydratase [Avicennia marina]'		

Seq. No.	55216	Seq. ID	OJ000112_09.0426.C1
Gene No.	115714	Strand	+
Start	499	End	10985
Name	OJ000112_09.0426.C1.o6.gp	Method	AAT/GAP
Start	8240	End	8572
GI	LIB3434-042-P1-K1-B12	Score	354
Exons	8240..8398, 8474..8572		
GI Descrip.	'6014701/gb|AAF01467.1|AF190450_1 5.0e-20 (AF190450) enoyl-CoA-hydratase [Avicennia marina]'		

Seq. No.	55216	Seq. ID	OJ000112_09.0426.C1

Gene No.	115714	Strand	+
Start	499	End	10985
Name	OJ000112_09.0426.C1.o5.gp	Method	AAT/GAP
Start	8336	End	8607
GI	LIB3432-035-P2-K1-D8	Score	237
Exons	8336..8398, 8474..8607		
GI Descrip.	'6014701/gb|AAF01467.1|AF190450_1 3.0e-26 (AF190450) enoyl-CoA-hydratase [Avicennia marina]'		

Seq. No.	55216	Seq. ID	OJ000112_09.0426.C1
Gene No.	115714	Strand	+
Start	499	End	10985
Name	OJ000112_09.0426.C1.o7.gp	Method	AAT/GAP
Start	10083	End	10856
GI	12453_1.R1084	Score	977
Exons	10083..10185, 10264..10305, 10410..10856		
GI Descrip.	'6014701/gb|AAF01467.1|AF190450_1 1.0e-91 (AF190450) enoyl-CoA-hydratase [Avicennia marina]'		

Seq. No.	55216	Seq. ID	OJ000112_09.0426.C1
Gene No.	115714	Strand	+
Start	499	End	10985
Name	OJ000112_09.0426.C1.o8.gp	Method	AAT/GAP
Start	10084	End	10985
GI	12453_1.R1084	Score	1128
Exons	10084..10185, 10264..10305, 10410..10985		
GI Descrip.	'6014701/gb|AAF01467.1|AF190450_1 1.0e-91 (AF190450) enoyl-CoA-hydratase [Avicennia marina]'		

Seq. No.	55216	Seq. ID	OJ000112_09.0426.C1
Gene No.	115715	Strand	-
Start	4097	End	5065
Name	OJ000112_09.0426.C1.o2.gs	Method	GENSCAN
Start	4097	End	5065
GI	none	Score	.61
Exons	4097..4170, 4629..4766, 5017..5065		

Seq. No.	55216	Seq. ID	OJ000112_09.0426.C1
Gene No.	115715	Strand	-
Start	4097	End	5065
Name	OJ000112_09.0426.C1.o3.gp	Method	AAT/GAP
Start	4391	End	4930
GI	LIB3434-038-P1-K1-F1	Score	840
Exons	4391..4930		
GI Descrip.	'5257255/dbj|AP000364.1|AP000364 0.0e+00 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	55216	Seq. ID	OJ000112_09.0426.C1
Gene No.	115716	Strand	-
Start	12236	End	12358
Name	OJ000112_09.0426.C1.o1.tm	Method	TBLASTX:Maize
Start	1621	End	10443
GI	none	Score	72
Exons	1621..1704, 1632..1715, 1632..1712, 1838..1912, 1845..1907, 2323..2403, 2335..2403, 2343..2417, 2590..2676, 2593..2673, 2766..2873, 2770..2874, 3018..3116, 3024..3107, 3025..3108, 3038..3109, 3522..3596, 3523..3591, 7393..7500, 7406..7501,		

8333..8398, 8336..8398, 8462..8575, 8473..8571, 10101..10184,
10102..10185, 10161..10301, 10255..10305, 10262..10324,
10262..10330, 10407..10442, 10407..10442, 10408..10443

Seq. No.	55216	Seq. ID	OJ000112_09.0426.C1
Gene No.	115716	Strand	-
Start	12236	End	12358
Name	OJ000112_09.0426.C1.o1.ts	Method	TBLASTX:Soybean
Start	1629	End	8554
GI	none	Score	72
Exons	1629..1715, 2341..2409, 2343..2417, 2343..2408, 2588..2671, 2596..2676, 2755..2853, 2768..2854, 2769..2873, 2770..2874, 3024..3104, 3025..3105, 3522..3596, 3527..3592, 7387..7488, 7409..7501, 8336..8398, 8474..8554		

Seq. No.	55216	Seq. ID	OJ000112_09.0426.C1
Gene No.	115716	Strand	-
Start	12236	End	12358
Name	OJ000112_09.0426.C1.o1.tw	Method	TBLASTX:Wheat
Start	10062	End	10566
GI	none	Score	179
Exons	10062..10184, 10084..10185, 10084..10185, 10251..10325, 10261..10305, 10262..10330, 10263..10325, 10395..10427, 10407..10559, 10407..10559, 10408..10566		

Seq. No.	55216	Seq. ID	OJ000112_09.0426.C1
Gene No.	115716	Strand	-
Start	12236	End	12358
Name	OJ000112_09.0426.C1.o4.gs	Method	GENSCAN
Start	12236	End	12358
GI	none	Score	.72
Exons	12236..12358		

Seq. No.	55217	Seq. ID	OJ000112_09.0426.C2
Gene No.	115717	Strand	+
Start	1616	End	5643
Name	OJ000112_09.0426.C2.o1.gs	Method	GENSCAN
Start	1616	End	3199
GI	none	Score	.9
Exons	1616..1709, 1909..1990, 2860..3199		

Seq. No.	55217	Seq. ID	OJ000112_09.0426.C2
Gene No.	115717	Strand	+
Start	1616	End	5643
Name	OJ000112_09.0426.C2.o1.np	Method	AAT/NAP
Start	2895	End	5643
GI	4775496	Score	86
Exons	2895..3111, 5514..5643		
GI Descrip.	(AJ238747) putative polyprotein (aspartic proteinase, reverse transcriptase, ribonuclease H) [Nicotiana tabacum]		

Seq. No.	55217	Seq. ID	OJ000112_09.0426.C2
Gene No.	115717	Strand	+
Start	1616	End	5643
Name	OJ000112_09.0426.C2.o2.gs	Method	GENSCAN
Start	4606	End	5614
GI	none	Score	.65

Exons	4606..4933, 5312..5614		
Seq. No.	55217	Seq. ID	OJ000112_09.0426.C2
Gene No.	115717	Strand	+
Start	1616	End	5643
Name	OJ000112_09.0426.C2.o2.np	Method	AAT/NAP
Start	4606	End	5643
GI	6006374	Score	1539
Exons	4606..5643		
GI Descrip.	(AP000559) Similar to Rice tungro bacilliform virus; reverse transcriptase (D10774) [Oryza sativa]		
Seq. No.	55217	Seq. ID	OJ000112_09.0426.C2
Gene No.	115718	Strand	-
Start	3407	End	3934
Name	OJ000112_09.0426.C2.o1.gp	Method	AAT/GAP
Start	3407	End	3934
GI	21466_1.R1084	Score	953
Exons	3407..3934		
GI Descrip.	'6006355/dbj|AP000559.1|AP000559 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0493C11'		
Seq. No.	55218	Seq. ID	OJ000112_09.0426.C3
Gene No.	115719	Strand	+
Start	1	End	1217
Name	OJ000112_09.0426.C3.o1.np	Method	AAT/NAP
Start	1	End	1217
GI	6006374	Score	2041
Exons	1..1217		
GI Descrip.	(AP000559) Similar to Rice tungro bacilliform virus; reverse transcriptase (D10774) [Oryza sativa]		
Seq. No.	55219	Seq. ID	OJ000112_09.0426.C4
Gene No.	115720	Strand	+
Start	1	End	2611
Name	OJ000112_09.0426.C4.o1.np	Method	AAT/NAP
Start	1	End	2340
GI	6006374	Score	1459
Exons	1..996, 2220..2340		
GI Descrip.	(AP000559) Similar to Rice tungro bacilliform virus; reverse transcriptase (D10774) [Oryza sativa]		
Seq. No.	55219	Seq. ID	OJ000112_09.0426.C4
Gene No.	115720	Strand	+
Start	1	End	2611
Name	OJ000112_09.0426.C4.o1.gs	Method	GENSCAN
Start	618	End	2611
GI	none	Score	.67
Exons	618..996, 1279..2058, 2112..2611		
Seq. No.	55219	Seq. ID	OJ000112_09.0426.C4
Gene No.	115720	Strand	+
Start	1	End	2611
Name	OJ000112_09.0426.C4.o2.np	Method	AAT/NAP
Start	917	End	1491
GI	7228451	Score	245
Exons	917..996, 1279..1430, 1462..1491		

GI Descrip. (AP001366) EST AU055734(S20025) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No.	55219	Seq. ID	OJ000112_09.0426.C4
Gene No.	115720	Strand	+
Start	1	End	2611
Name	OJ000112_09.0426.C4.o3.np	Method	AAT/NAP
Start	2231	End	2608
GI	7228452	Score	627
Exons	2231..2608		

GI Descrip. (AP001366) hypothetical protein [Oryza sativa]

Seq. No.	55219	Seq. ID	OJ000112_09.0426.C4
Gene No.	115721	Strand	+
Start	4804	End	17161
Name	OJ000112_09.0426.C4.o2.gp	Method	AAT/GAP
Start	3747	End	3839
GI	LIB3477-003-P1-K1-E9	Score	109
Exons	3747..3839		

GI Descrip. '2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'

Seq. No.	55219	Seq. ID	OJ000112_09.0426.C4
Gene No.	115721	Strand	+
Start	4804	End	17161
Name	OJ000112_09.0426.C4.o2.gs	Method	GENSCAN
Start	4804	End	17161
GI	none	Score	.87
Exons	4804..4861, 6517..6665, 9488..9639, 10137..10316, 10377..10515, 10995..12104, 12830..12915, 13352..14163, 14256..15318, 15399..15629, 15707..15831, 16446..17161		

Seq. No.	55219	Seq. ID	OJ000112_09.0426.C4
Gene No.	115721	Strand	+
Start	4804	End	17161
Name	OJ000112_09.0426.C4.o4.gp	Method	AAT/GAP
Start	4973	End	5439
GI	LIB3432-059-P1-K1-D8	Score	698
Exons	4973..5439		

GI Descrip. '5734616/dbj|AP000391.1|AP000391 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'

Seq. No.	55219	Seq. ID	OJ000112_09.0426.C4
Gene No.	115721	Strand	+
Start	4804	End	17161
Name	OJ000112_09.0426.C4.o5.gp	Method	AAT/GAP
Start	15595	End	16132
GI	none	Score	716
Exons	15595..15629, 15707..15831, 15915..16132		

Seq. No.	55219	Seq. ID	OJ000112_09.0426.C4
Gene No.	115722	Strand	+
Start	19184	End	19243
Name	OJ000112_09.0426.C4.o6.gp	Method	AAT/GAP
Start	19184	End	19243
GI	LIB3477-003-P1-K1-E9	Score	77

Exons	19184..19243		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		
Seq. No.	55219	Seq. ID	OJ000112_09.0426.C4
Gene No.	115723	Strand	-
Start	3062	End	3589
Name	OJ000112_09.0426.C4.o1.gp	Method	AAT/GAP
Start	3062	End	3589
GI	21466_1.R1084	Score	957
Exons	3062..3589		
GI Descrip.	'6006355/dbj|AP000559.1|AP000559 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0493C11'		
Seq. No.	55219	Seq. ID	OJ000112_09.0426.C4
Gene No.	115724	Strand	-
Start	4477	End	4528
Name	OJ000112_09.0426.C4.o3.gp	Method	AAT/GAP
Start	4477	End	4528
GI	2312838	Score	65
Exons	4477..4528		
GI Descrip.	1420932/gb|U61383|ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence		
Seq. No.	55219	Seq. ID	OJ000112_09.0426.C4
Gene No.	115725	Strand	-
Start	19248	End	19961
Name	OJ000112_09.0426.C4.o4.tm	Method	TBLASTX:Maize
Start	11731	End	12059
GI	none	Score	75
Exons	11731..11829, 11736..11828, 11841..12059, 11905..12057		
Seq. No.	55219	Seq. ID	OJ000112_09.0426.C4
Gene No.	115725	Strand	-
Start	19248	End	19961
Name	OJ000112_09.0426.C4.o1.tw	Method	TBLASTX:Wheat
Start	14145	End	14674
GI	none	Score	69
Exons	14145..14168, 14254..14376, 14262..14375, 14264..14377, 14386..14559, 14409..14561, 14560..14625, 14603..14674, 14618..14674		
Seq. No.	55219	Seq. ID	OJ000112_09.0426.C4
Gene No.	115725	Strand	-
Start	19248	End	19961
Name	OJ000112_09.0426.C4.o2.tm	Method	TBLASTX:Maize
Start	14215	End	14805
GI	none	Score	100
Exons	14215..14376, 14255..14377, 14256..14375, 14260..14376, 14264..14377, 14370..14669, 14397..14669, 14419..14670, 14755..14805		
Seq. No.	55219	Seq. ID	OJ000112_09.0426.C4
Gene No.	115725	Strand	-
Start	19248	End	19961
Name	OJ000112_09.0426.C4.o1.tm	Method	TBLASTX:Maize

Start	15013	End	15970
GI	none	Score	223
Exons	15013..15318, 15014..15319, 15023..15319, 15069..15329, 15388..15627, 15399..15629, 15528..15632, 15704..15832, 15705..15833, 15706..15843, 15887..15970, 15908..15970		

Seq. No.	55219	Seq. ID	OJ000112_09.0426.C4
Gene No.	115725	Strand	-
Start	19248	End	19961
Name	OJ000112_09.0426.C4.o3.tm	Method	TBLASTX:Maize
Start	16939	End	17406
GI	none	Score	120
Exons	16939..17145, 16941..17150, 16957..17151, 17151..17195, 17155..17184, 17156..17185, 17176..17262, 17185..17253, 17189..17278, 17195..17263, 17251..17283, 17376..17396, 17377..17406		

Seq. No.	55219	Seq. ID	OJ000112_09.0426.C4
Gene No.	115725	Strand	-
Start	19248	End	19961
Name	OJ000112_09.0426.C4.o3.gs	Method	GENSCAN
Start	19248	End	19961
GI	none	Score	.45
Exons	19248..19327, 19465..19664, 19837..19961		

Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5
Gene No.	115726	Strand	+
Start	1383	End	1937
Name	OJ000112_09.0426.C5.o1.gp	Method	AAT/GAP
Start	1383	End	1937
GI	none	Score	1028
Exons	1383..1937		

Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5
Gene No.	115727	Strand	+
Start	1921	End	12817
Name	OJ000112_09.0426.C5.o1.np	Method	AAT/NAP
Start	1921	End	12802
GI	7487768	Score	1202
Exons	1921..1982, 7609..7656, 10759..10928, 11058..11198, 11278..11549, 11651..11778, 11895..12038, 12188..12802		
GI Descrip.	hypothetical protein T6K21.150 - Arabidopsis thaliana gi|2894606|emb|CAA17140.1| (AL021889) putative protein [Arabidopsis thaliana] gi|7268549|emb|CAB78799.1| (AL161547) putative protein [Arabidopsis thaliana]		

Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5
Gene No.	115727	Strand	+
Start	1921	End	12817
Name	OJ000112_09.0426.C5.o2.gs	Method	GENSCAN
Start	8030	End	12817
GI	none	Score	.46
Exons	8030..8040, 8472..8510, 8594..8652, 8899..9078, 10526..10612, 11373..11549, 11675..11778, 12188..12817		

Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5
Gene No.	115728	Strand	+

Start	15513	End	19732
Name	OJ000112_09.0426.C5.o3.np	Method	AAT/NAP
Start	15513	End	19732
GI	6815107	Score	681
Exons	15513..15548, 16791..17778, 17828..17988, 18106..18331, 18591..18893, 19684..19732		
GI Descrip.	(AP001081) Similar to Arabidopsis thaliana DNA chromosome 4, BAC clone F20D10;hypothetical protein (AL035538) [Oryza sativa]		

Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5
Gene No.	115728	Strand	+
Start	15513	End	19732
Name	OJ000112_09.0426.C5.o4.gs	Method	GENSCAN
Start	17032	End	18096
GI	none	Score	.74
Exons	17032..18096		

Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5
Gene No.	115728	Strand	+
Start	15513	End	19732
Name	OJ000112_09.0426.C5.o2.gp	Method	AAT/GAP
Start	18773	End	19628
GI	none	Score	1276
Exons	18773..18919, 19004..19162, 19255..19628		

Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5
Gene No.	115729	Strand	+
Start	33709	End	35503
Name	OJ000112_09.0426.C5.o5.np	Method	AAT/NAP
Start	33709	End	35503
GI	6983857	Score	1406
Exons	33709..33823, 33887..34448, 34619..35087, 35118..35503		
GI Descrip.	(AP001168) hypothetical protein [Oryza sativa]		

Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5
Gene No.	115730	Strand	-
Start	1778	End	4478
Name	OJ000112_09.0426.C5.o1.gs	Method	GENSCAN
Start	1778	End	4478
GI	none	Score	.95
Exons	1778..1918, 2007..2920, 3902..4478		

Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5
Gene No.	115731	Strand	-
Start	13120	End	16695
Name	OJ000112_09.0426.C5.o2.np	Method	AAT/NAP
Start	13120	End	15251
GI	7486897	Score	642
Exons	13120..13383, 13553..13740, 13817..13913, 14266..14336, 14422..14569, 14654..14731, 14859..14969, 15079..15251		
GI Descrip.	hypothetical protein T12H20.1 - Arabidopsis thaliana gi|3600035|gb|AAC35523.1| (AF080119) contains similarity to GTP-binding proteins [Arabidopsis thaliana]		

Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5
Gene No.	115731	Strand	-
Start	13120	End	16695

Name	OJ000112_09.0426.C5.o3.gs	Method	GENSCAN
Start	13120	End	16695
GI	none	Score	.88
Exons	13120..13383, 13553..13740, 13817..13913, 14266..14336, 14422..14569, 14654..14731, 14859..14969, 15079..15236, 15627..15852, 16540..16695		

Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5
Gene No.	115732	Strand	-
Start	19551	End	20594
Name	OJ000112_09.0426.C5.o6.gs	Method	GENSCAN
Start	19551	End	20594
GI	none	Score	.78
Exons	19551..19991, 20187..20277, 20323..20594		

Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5
Gene No.	115733	Strand	-
Start	23810	End	25431
Name	OJ000112_09.0426.C5.o7.gs	Method	GENSCAN
Start	23810	End	25422
GI	none	Score	.89
Exons	23810..24364, 24453..24676, 25275..25422		

Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5
Gene No.	115733	Strand	-
Start	23810	End	25431
Name	OJ000112_09.0426.C5.o4.np	Method	AAT/NAP
Start	24024	End	25431
GI	7487769	Score	561
Exons	24024..24366, 24449..24728, 25273..25431		
GI Descrip.	hypothetical protein T6K21.160 - Arabidopsis thaliana gi|2894607|emb|CAA17141.1| (AL021889) NAM (no apical meristem)-like protein [Arabidopsis thaliana] gi|7268550|emb|CAB78800.1| (AL161547) NAM (no apical meristem)-like protein [Arabidopsis thaliana]		

Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5
Gene No.	115734	Strand	-
Start	37859	End	38079
Name	OJ000112_09.0426.C5.o6.np	Method	AAT/NAP
Start	37859	End	38079
GI	6723754	Score	130
Exons	37859..38079		
GI Descrip.	(AJ271079) hypothetical protein [Oenothera elata subsp. hookeri]		

Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5
Gene No.	115735	Strand	-
Start	41609	End	52881
Name	OJ000112_09.0426.C5.o1.tm	Method	TBLASTX:Maize
Start	1751	End	4286
GI	none	Score	122
Exons	1751..1924, 1789..1920, 1790..1936, 1986..2213, 2005..2805, 2005..2802, 2007..2816, 2196..2408, 2265..2819, 2371..2814, 2377..2817, 2455..2784, 2529..2744, 2799..2924, 2800..2925, 2805..2939, 4134..4268, 4143..4286		

Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5

Gene No.	115735	Strand	-
Start	41609	End	52881
Name	OJ000112_09.0426.C5.o1.tc	Method	TBLASTX:Cress
Start	1841	End	2744
GI	none	Score	126
Exons	1841..1921, 2007..2303, 2068..2250, 2118..2294, 2220..2321, 2334..2471, 2376..2441, 2445..2600, 2634..2744		

Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5
Gene No.	115735	Strand	-
Start	41609	End	52881
Name	OJ000112_09.0426.C5.o1.ts	Method	TBLASTX:Soybean
Start	2016	End	2925
GI	none	Score	311
Exons	2016..2186, 2016..2177, 2025..2186, 2070..2189, 2097..2186, 2196..2735, 2196..2612, 2218..2925, 2220..2924		

Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5
Gene No.	115735	Strand	-
Start	41609	End	52881
Name	OJ000112_09.0426.C5.o2.ts	Method	TBLASTX:Soybean
Start	10703	End	12259
GI	none	Score	250
Exons	10703..10930, 10759..10929, 11041..11199, 11051..11200, 11264..11365, 11277..11366, 11345..11548, 11365..11547, 11626..11670, 11637..11669, 11713..11778, 11730..11774, 11894..12019, 11895..12080, 11895..11999, 11903..12049, 12182..12259		

Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5
Gene No.	115735	Strand	-
Start	41609	End	52881
Name	OJ000112_09.0426.C5.o8.tc	Method	TBLASTX:Cress
Start	10766	End	11152
GI	none	Score	174
Exons	10766..10930, 10774..10839, 10870..10929, 11051..11152		

Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5
Gene No.	115735	Strand	-
Start	41609	End	52881
Name	OJ000112_09.0426.C5.o7.tc	Method	TBLASTX:Cress
Start	13156	End	13690
GI	none	Score	114
Exons	13156..13386, 13157..13384, 13553..13582, 13625..13690		

Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5
Gene No.	115735	Strand	-
Start	41609	End	52881
Name	OJ000112_09.0426.C5.o7.tm	Method	TBLASTX:Maize
Start	13556	End	13919
GI	none	Score	131
Exons	13556..13576, 13557..13745, 13561..13743, 13628..13747, 13810..13914, 13815..13919		

Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5
Gene No.	115735	Strand	-
Start	41609	End	52881

Name	OJ000112_09.0426.C5.o6.tm	Method	TBLASTX:Maize
Start	16785	End	17151
GI	none	Score	168
Exons	16785..16955, 16786..16974, 16972..17151, 17007..17105		

Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5
Gene No.	115735	Strand	-
Start	41609	End	52881
Name	OJ000112_09.0426.C5.o5.tm	Method	TBLASTX:Maize
Start	17365	End	17781
GI	none	Score	279
Exons	17365..17781, 17367..17711		

Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5
Gene No.	115735	Strand	-
Start	41609	End	52881
Name	OJ000112_09.0426.C5.o9.tc	Method	TBLASTX:Cress
Start	17365	End	17679
GI	none	Score	195
Exons	17365..17679		

Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5
Gene No.	115735	Strand	-
Start	41609	End	52881
Name	OJ000112_09.0426.C5.o6.ts	Method	TBLASTX:Soybean
Start	17424	End	18033
GI	none	Score	258
Exons	17424..17708, 17425..17787, 17935..18033		

Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5
Gene No.	115735	Strand	-
Start	41609	End	52881
Name	OJ000112_09.0426.C5.o5.ts	Method	TBLASTX:Soybean
Start	24317	End	24735
GI	none	Score	217
Exons	24317..24367, 24492..24725, 24493..24732, 24601..24735		

Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5
Gene No.	115735	Strand	-
Start	41609	End	52881
Name	OJ000112_09.0426.C5.o1.tw	Method	TBLASTX:Wheat
Start	24483	End	24711
GI	none	Score	129
Exons	24483..24710, 24484..24711		

Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5
Gene No.	115735	Strand	-
Start	41609	End	52881
Name	OJ000112_09.0426.C5.o4.tm	Method	TBLASTX:Maize
Start	24495	End	25432
GI	none	Score	336
Exons	24495..24731, 24496..24744, 24496..24744, 25263..25328, 25276..25431, 25277..25432		

Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5
Gene No.	115735	Strand	-
Start	41609	End	52881

Name	OJ000112_09.0426.C5.o5.tc	Method	TBLASTX:Cress
Start	24498	End	25416
GI	none	Score	192
Exons	24498..24734, 24499..24708, 25264..25416, 25265..25414		

Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5
Gene No.	115735	Strand	-
Start	41609	End	52881
Name	OJ000112_09.0426.C5.o7.ts	Method	TBLASTX:Soybean
Start	25267	End	25416
GI	none	Score	137
Exons	25267..25416, 25268..25414		

Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5
Gene No.	115735	Strand	-
Start	41609	End	52881
Name	OJ000112_09.0426.C5.o2.tm	Method	TBLASTX:Maize
Start	41328	End	44728
GI	none	Score	49
Exons	41328..41378, 41433..41531, 41451..41495, 41452..41502, 41483..41542, 41494..41562, 41607..41852, 41609..41830, 41609..41863, 41616..41861, 42143..42256, 42144..42263, 42145..42261, 42147..42269, 42148..42270, 42599..42763, 42657..42764, 42848..43039, 42849..43040, 43427..43513, 43428..43514, 43429..43515, 43429..43518, 43433..43519, 43683..43805, 43684..43794, 43689..43802, 43957..44115, 43976..44116, 43982..44113, 44384..44563, 44409..44570, 44660..44728, 44664..44714		

Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5
Gene No.	115735	Strand	-
Start	41609	End	52881
Name	OJ000112_09.0426.C5.o3.gp	Method	AAT/GAP
Start	41338	End	41574
GI	2797409	Score	450
Exons	41338..41574		

Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5
Gene No.	115735	Strand	-
Start	41609	End	52881
Name	OJ000112_09.0426.C5.o7.np	Method	AAT/NAP
Start	41609	End	45133
GI	7486022	Score	1321
Exons	41609..41891, 42139..42260, 42608..42763, 42851..43039, 43429..43514, 43688..43793, 43982..44115, 44428..44563, 44660..44929, 45038..45133		
GI Descrip.	hypothetical protein F23E12.210 - Arabidopsis thaliana gi|3080427|emb|CAA18746.1| (AL022604) putative protein [Arabidopsis thaliana] gi|7270475|emb|CAB80240.1| (AL161587) putative protein [Arabidopsis thaliana]		

Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5
Gene No.	115735	Strand	-
Start	41609	End	52881
Name	OJ000112_09.0426.C5.o9.gs	Method	GENSCAN
Start	41609	End	52673
GI	none	Score	.69

Exons	41609..41860, 42147..42247, 42619..42763, 42851..42984, 43688..43793, 43982..44115, 44350..44563, 44660..44931, 45043..45160, 47051..47076, 48906..49047, 50398..50490, 50608..50716, 50880..51055, 51454..51556, 51705..51880, 52042..52104, 52382..52470, 52563..52673		
Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5
Gene No.	115735	Strand	-
Start	41609	End	52881
Name	OJ000112_09.0426.C5.o4.ts	Method	TBLASTX:Soybean
Start	41619	End	44842
GI	none	Score	115
Exons	41619..41780, 41621..41815, 41636..41785, 42135..42263, 42599..42706, 42848..43039, 42849..43040, 43429..43518, 43433..43531, 43683..43805, 43684..43809, 43699..43815, 43982..44125, 43982..44113, 44372..44560, 44427..44570, 44630..44842, 44664..44840		
Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5
Gene No.	115735	Strand	-
Start	41609	End	52881
Name	OJ000112_09.0426.C5.o4.tc	Method	TBLASTX:Cress
Start	41621	End	44062
GI	none	Score	84
Exons	41621..41719, 41622..41717, 41720..41836, 41721..41837, 42147..42263, 42160..42261, 42599..42712, 42722..42763, 42848..43039, 42852..43043, 43429..43518, 43430..43531, 43683..43805, 43684..43806, 43982..44062		
Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5
Gene No.	115735	Strand	-
Start	41609	End	52881
Name	OJ000112_09.0426.C5.o2.tc	Method	TBLASTX:Cress
Start	44427	End	44851
GI	none	Score	113
Exons	44427..44576, 44429..44560, 44663..44851, 44664..44714, 44745..44849		
Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5
Gene No.	115735	Strand	-
Start	41609	End	52881
Name	OJ000112_09.0426.C5.o2.tw	Method	TBLASTX:Wheat
Start	44444	End	44861
GI	none	Score	37
Exons	44444..44560, 44660..44740, 44664..44711, 44735..44851, 44745..44861		
Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5
Gene No.	115735	Strand	-
Start	41609	End	52881
Name	OJ000112_09.0426.C5.o4.gp	Method	AAT/GAP
Start	48826	End	49141
GI	none	Score	597
Exons	48826..49141		
Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5
Gene No.	115735	Strand	-

Start	41609	End	52881
Name	OJ000112_09.0426.C5.o5.gp	Method	AAT/GAP
Start	50187	End	50995
GI	38215_1.R1084	Score	960
Exons	50187..50490, 50608..50716, 50880..50995		
GI Descrip.	'2497540/sp|P55964|KPYG_RICCO 5.0e-43 PYRUVATE KINASE ISOZYME G, CHLOROPLAST'		

Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5
Gene No.	115735	Strand	-
Start	41609	End	52881
Name	OJ000112_09.0426.C5.o3.tm	Method	TBLASTX:Maize
Start	50229	End	52872
GI	none	Score	38
Exons	50229..50270, 50240..50305, 50240..50272, 50368..50484, 50370..50483, 50372..50491, 50383..50487, 50608..50715, 50609..50716, 50609..50719, 50879..51052, 50880..51053, 50883..51065, 50884..51063, 51454..51558, 51463..51552, 51678..51905, 51681..51749, 51704..51895, 51789..51896, 52033..52104, 52040..52105, 52043..52105, 52377..52472, 52380..52472, 52382..52474, 52562..52666, 52563..52667, 52564..52683, 52753..52818, 52753..52800, 52757..52816, 52801..52872, 52808..52870, 52810..52872		

Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5
Gene No.	115735	Strand	-
Start	41609	End	52881
Name	OJ000112_09.0426.C5.o3.ts	Method	TBLASTX:Soybean
Start	50377	End	52873
GI	none	Score	77
Exons	50377..50472, 50381..50473, 50603..50704, 50608..50712, 50879..51031, 50880..51014, 50912..51019, 51055..51102, 51445..51558, 51473..51556, 51678..51905, 51693..51863, 51704..51895, 52040..52105, 52042..52104, 52377..52466, 52382..52474, 52382..52465, 52555..52683, 52562..52678, 52746..52817, 52753..52818, 52801..52872, 52808..52873		

Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5
Gene No.	115735	Strand	-
Start	41609	End	52881
Name	OJ000112_09.0426.C5.o8.np	Method	AAT/NAP
Start	50380	End	52881
GI	2497542	Score	1159
Exons	50380..50490, 50608..50716, 50880..51028, 51454..51556, 51705..51880, 52042..52104, 52382..52470, 52563..52673, 52751..52881		
GI Descrip.	PYRUVATE KINASE ISOZYME G, CHLOROPLAST PRECURSOR gi|629696|pir||S44287 pyruvate kinase, plastid - common tobacco gi|482938|emb|CAA82223| (Z28374) Pyruvate kinase; plastid isozyme [Nicotiana tabacum]		

Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5
Gene No.	115735	Strand	-
Start	41609	End	52881
Name	OJ000112_09.0426.C5.o6.tc	Method	TBLASTX:Cress
Start	50383	End	51558
GI	none	Score	134

Exons	50383..50493, 50611..50718, 50879..51031, 50883..51014, 50906..51031, 51460..51558, 51497..51556		
Seq. No.	55220	Seq. ID	OJ000112_09.0426.C5
Gene No.	115735	Strand	-
Start	41609	End	52881
Name	OJ000112_09.0426.C5.o3.tc	Method	TBLASTX:Cress
Start	51678	End	52867
GI	none	Score	181
Exons	51678..51905, 51704..51895, 52042..52101, 52042..52104, 52052..52105, 52368..52463, 52380..52463, 52382..52468, 52558..52683, 52567..52668, 52610..52678, 52752..52817, 52753..52818, 52801..52866, 52811..52867		
Seq. No.	55221	Seq. ID	OJ000112_09.0426.C6
Gene No.	115736	Strand	-
Start	1	End	1871
Name	OJ000112_09.0426.C6.o1.np	Method	AAT/NAP
Start	1	End	1871
GI	2497542	Score	475
Exons	1..276, 353..595, 1810..1871		
GI Descrip.	PYRUVATE KINASE ISOZYME G, CHLOROPLAST PRECURSOR gi|629696|pir||S44287 pyruvate kinase, plastid - common tobacco gi|482938|emb|CAA82223| (Z28374) Pyruvate kinase; plastid isozyme [Nicotiana tabacum]		
Seq. No.	55221	Seq. ID	OJ000112_09.0426.C6
Gene No.	115736	Strand	-
Start	1	End	1871
Name	OJ000112_09.0426.C6.o1.gs	Method	GENSCAN
Start	111	End	1361
GI	none	Score	.87
Exons	111..312, 353..616, 1200..1361		
Seq. No.	55221	Seq. ID	OJ000112_09.0426.C6
Gene No.	115737	Strand	-
Start	2624	End	4166
Name	OJ000112_09.0426.C6.o1.tm	Method	TBLASTX:Maize
Start	109	End	602
GI	none	Score	231
Exons	109..279, 109..279, 209..307, 337..573, 352..573, 353..601, 357..602		
Seq. No.	55221	Seq. ID	OJ000112_09.0426.C6
Gene No.	115737	Strand	-
Start	2624	End	4166
Name	OJ000112_09.0426.C6.o1.ts	Method	TBLASTX:Soybean
Start	109	End	587
GI	none	Score	198
Exons	109..258, 353..379, 386..574, 400..582, 402..575, 402..587		
Seq. No.	55221	Seq. ID	OJ000112_09.0426.C6
Gene No.	115737	Strand	-
Start	2624	End	4166
Name	OJ000112_09.0426.C6.o1.tc	Method	TBLASTX:Cress
Start	172	End	571
GI	none	Score	86

Exons	172..279, 209..292, 353..394, 365..556, 387..533, 527..571		
Seq. No.	55221	Seq. ID	OJ000112_09.0426.C6
Gene No.	115737	Strand	-
Start	2624	End	4166
Name	OJ000112_09.0426.C6.o2.np	Method	AAT/NAP
Start	2624	End	4166
GI	7486436	Score	266
Exons	2624..2707, 2845..2945, 3741..3775, 3877..4166		
GI Descrip.	hypothetical protein F4I1.34 - Arabidopsis thaliana		
Seq. No.	55221	Seq. ID	OJ000112_09.0426.C6
Gene No.	115737	Strand	-
Start	2624	End	4166
Name	OJ000112_09.0426.C6.o1.gp	Method	AAT/GAP
Start	2871	End	3236
GI	uC-osflcyp169h09b1	Score	700
Exons	2871..3236		
GI Descrip.	'5441872/dbj|AP000366.1|AP000366 2.0e-21 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig a)'		
Seq. No.	55222	Seq. ID	OJ000112_08.0426.C3
Gene No.	115738	Strand	+
Start	601	End	1823
Name	OJ000112_08.0426.C3.o1.gs	Method	GENSCAN
Start	601	End	1823
GI	none	Score	.85
Exons	601..745, 1571..1630, 1728..1823		
Seq. No.	55223	Seq. ID	OJ000112_08.0426.C4
Gene No.	115739	Strand	+
Start	1	End	5077
Name	OJ000112_08.0426.C4.o1.np	Method	AAT/NAP
Start	1	End	5077
GI	7487641	Score	1031
Exons	1..400, 480..620, 1928..2098, 3860..4117, 4210..4355, 4668..5077		
GI Descrip.	hypothetical protein T4F9.50 - Arabidopsis thaliana gi|4539437|emb|CAB40025.1| (AL049523) putative protein [Arabidopsis thaliana] gi|7267756|emb|CAB78182.1| (AL161517) putative protein [Arabidopsis thaliana]		
Seq. No.	55223	Seq. ID	OJ000112_08.0426.C4
Gene No.	115739	Strand	+
Start	1	End	5077
Name	OJ000112_08.0426.C4.o1.gp	Method	AAT/GAP
Start	61	End	1961
GI	uC-osflcyp110a07b1	Score	950
Exons	61..400, 480..620, 1928..1961		
GI Descrip.	'4539437/emb|CAB40025.1| 2.0e-49 (AL049523) putative protein [Arabidopsis thaliana]'		
Seq. No.	55223	Seq. ID	OJ000112_08.0426.C4
Gene No.	115739	Strand	+
Start	1	End	5077
Name	OJ000112_08.0426.C4.o1.tm	Method	TBLASTX:Maize
Start	62	End	384
GI	none	Score	83

Exons	62..118, 63..227, 64..234, 221..382, 223..384, 224..382, 232..384		
Seq. No.	55223	Seq. ID	OJ000112_08.0426.C4
Gene No.	115739	Strand	+
Start	1	End	5077
Name	OJ000112_08.0426.C4.o2.ts	Method	TBLASTX:Soybean
Start	247	End	400
GI	none	Score	208
Exons	247..393, 257..400		
Seq. No.	55223	Seq. ID	OJ000112_08.0426.C4
Gene No.	115739	Strand	+
Start	1	End	5077
Name	OJ000112_08.0426.C4.o1.gs	Method	GENSCAN
Start	304	End	5045
GI	none	Score	.73
Exons	304..400, 427..620, 1928..2098, 3860..4027, 4210..4355, 4668..5045		
Seq. No.	55223	Seq. ID	OJ000112_08.0426.C4
Gene No.	115739	Strand	+
Start	1	End	5077
Name	OJ000112_08.0426.C4.o1.ts	Method	TBLASTX:Soybean
Start	488	End	3982
GI	none	Score	201
Exons	488..622, 489..620, 497..622, 1925..2089, 1934..2092, 3838..3981, 3860..3982		
Seq. No.	55223	Seq. ID	OJ000112_08.0426.C4
Gene No.	115739	Strand	+
Start	1	End	5077
Name	OJ000112_08.0426.C4.o4.tm	Method	TBLASTX:Maize
Start	543	End	2044
GI	none	Score	115
Exons	543..620, 545..616, 548..628, 1897..2037, 1925..2044, 1925..2041		
Seq. No.	55223	Seq. ID	OJ000112_08.0426.C4
Gene No.	115739	Strand	+
Start	1	End	5077
Name	OJ000112_08.0426.C4.o2.tm	Method	TBLASTX:Maize
Start	2048	End	4122
GI	none	Score	79
Exons	2048..2110, 2049..2099, 3859..4122, 3860..4120		
Seq. No.	55223	Seq. ID	OJ000112_08.0426.C4
Gene No.	115739	Strand	+
Start	1	End	5077
Name	OJ000112_08.0426.C4.o3.tm	Method	TBLASTX:Maize
Start	4690	End	5016
GI	none	Score	278
Exons	4690..4920, 4700..4852, 4701..4889, 4708..4920, 4767..4922, 4912..5016, 4927..4989, 4952..4993		
Seq. No.	55223	Seq. ID	OJ000112_08.0426.C4
Gene No.	115739	Strand	+
Start	1	End	5077

Name	OJ000112_08.0426.C4.o2.gp	Method	AAT/GAP
Start	4947	End	5077
GI	uC-osflcyp159b09b1	Score	238
Exons	4947..5077		
GI Descrip.	'4539435/emb|CAB40023.1| 4.0e-53 (AL049523) putative protein [Arabidopsis thaliana]'		

Seq. No.	55224	Seq. ID	OJ000112_08.0426.C5
Gene No.	115740	Strand	+
Start	1	End	508
Name	OJ000112_08.0426.C5.o1.gp	Method	AAT/GAP
Start	1	End	147
GI	uC-osflcyp159b09b1	Score	278
Exons	1..147		
GI Descrip.	'4539435/emb|CAB40023.1| 4.0e-53 (AL049523) putative protein [Arabidopsis thaliana]'		

Seq. No.	55224	Seq. ID	OJ000112_08.0426.C5
Gene No.	115740	Strand	+
Start	1	End	508
Name	OJ000112_08.0426.C5.o1.np	Method	AAT/NAP
Start	1	End	508
GI	7487639	Score	379
Exons	1..212, 318..508		
GI Descrip.	hypothetical protein T4F9.30 - Arabidopsis thaliana gi|4539435|emb|CAB40023.1| (AL049523) putative protein [Arabidopsis thaliana] gi|7267754|emb|CAB78180.1| (AL161517) putative protein [Arabidopsis thaliana]		

Seq. No.	55224	Seq. ID	OJ000112_08.0426.C5
Gene No.	115740	Strand	+
Start	1	End	508
Name	OJ000112_08.0426.C5.o1.gs	Method	GENSCAN
Start	48	End	497
GI	none	Score	.78
Exons	48..212, 318..497		

Seq. No.	55224	Seq. ID	OJ000112_08.0426.C5
Gene No.	115741	Strand	+
Start	7637	End	8089
Name	OJ000112_08.0426.C5.o3.gp	Method	AAT/GAP
Start	7637	End	8089
GI	69953_1.R1084	Score	142
Exons	7637..7670, 8004..8089		
GI Descrip.	'5295936/dbj|AB026295.2|AB026295 7.0e-34 Oryza sativa genomic DNA, chromosome 6, clone:P0681F10, complete sequence'		

Seq. No.	55224	Seq. ID	OJ000112_08.0426.C5
Gene No.	115742	Strand	-
Start	559	End	1030
Name	OJ000112_08.0426.C5.o1.tc	Method	TBLASTX:Cress
Start	2	End	422
GI	none	Score	277
Exons	2..166, 3..218, 327..422		

Seq. No.	55224	Seq. ID	OJ000112_08.0426.C5
Gene No.	115742	Strand	-

Start	559	End	1030
Name	OJ000112_08.0426.C5.o1.ts	Method	TBLASTX:Soybean
Start	2	End	425
GI	none	Score	242
Exons	2..109, 3..212, 15..197, 330..425		

Seq. No.	55224	Seq. ID	OJ000112_08.0426.C5
Gene No.	115742	Strand	-
Start	559	End	1030
Name	OJ000112_08.0426.C5.o1.tm	Method	TBLASTX:Maize
Start	21	End	486
GI	none	Score	146
Exons	21..110, 23..118, 23..115, 120..218, 120..212, 121..231, 308..427, 327..449, 454..486		

Seq. No.	55224	Seq. ID	OJ000112_08.0426.C5
Gene No.	115742	Strand	-
Start	559	End	1030
Name	OJ000112_08.0426.C5.o2.gp	Method	AAT/GAP
Start	559	End	1030
GI	none	Score	912
Exons	559..1030		

Seq. No.	55225	Seq. ID	OJ000112_08.0426.C7
Gene No.	115743	Strand	+
Start	652	End	936
Name	OJ000112_08.0426.C7.o1.gs	Method	GENSCAN
Start	652	End	936
GI	none	Score	.99
Exons	652..936		

Seq. No.	55226	Seq. ID	OJ000112_08.0426.C8
Gene No.	115744	Strand	+
Start	701	End	985
Name	OJ000112_08.0426.C8.o1.gs	Method	GENSCAN
Start	701	End	985
GI	none	Score	.52
Exons	701..793, 812..985		

Seq. No.	55226	Seq. ID	OJ000112_08.0426.C8
Gene No.	115745	Strand	-
Start	1928	End	20196
Name	OJ000112_08.0426.C8.o2.gs	Method	GENSCAN
Start	1928	End	12428
GI	none	Score	.49
Exons	1928..2035, 2298..2684, 2733..3361, 3900..4032, 6512..6651, 6694..7074, 7196..7289, 11179..11372, 12254..12428		

Seq. No.	55226	Seq. ID	OJ000112_08.0426.C8
Gene No.	115745	Strand	-
Start	1928	End	20196
Name	OJ000112_08.0426.C8.o1.np	Method	AAT/NAP
Start	6154	End	20196
GI	6069646	Score	927
Exons	6154..7130, 7441..7652, 13053..13631, 20165..20196		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to		

Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]

Seq. No.	55226	Seq. ID	OJ000112_08.0426.C8
Gene No.	115745	Strand	-
Start	1928	End	20196
Name	OJ000112_08.0426.C8.o3.tm	Method	TBLASTX:Maize
Start	6188	End	6724
GI	none	Score	42
Exons	6188..6337, 6188..6385, 6392..6724, 6435..6653		

Seq. No.	55226	Seq. ID	OJ000112_08.0426.C8
Gene No.	115745	Strand	-
Start	1928	End	20196
Name	OJ000112_08.0426.C8.o4.tw	Method	TBLASTX:Wheat
Start	6284	End	6638
GI	none	Score	83
Exons	6284..6337, 6434..6637, 6525..6638		

Seq. No.	55226	Seq. ID	OJ000112_08.0426.C8
Gene No.	115745	Strand	-
Start	1928	End	20196
Name	OJ000112_08.0426.C8.o1.tw	Method	TBLASTX:Wheat
Start	7068	End	10470
GI	none	Score	67
Exons	7068..7166, 7276..7452, 9919..10017, 10093..10296, 10096..10470		

Seq. No.	55226	Seq. ID	OJ000112_08.0426.C8
Gene No.	115745	Strand	-
Start	1928	End	20196
Name	OJ000112_08.0426.C8.o2.tm	Method	TBLASTX:Maize
Start	7068	End	10258
GI	none	Score	64
Exons	7068..7166, 7069..7167, 9907..10020, 9907..10053, 9991..10251, 10063..10257, 10064..10258		

Seq. No.	55226	Seq. ID	OJ000112_08.0426.C8
Gene No.	115745	Strand	-
Start	1928	End	20196
Name	OJ000112_08.0426.C8.o2.ts	Method	TBLASTX:Soybean
Start	7279	End	10620
GI	none	Score	70
Exons	7279..7602, 10093..10278, 10106..10189, 10267..10473, 10295..10474, 10563..10619, 10567..10620		

Seq. No.	55226	Seq. ID	OJ000112_08.0426.C8
Gene No.	115745	Strand	-
Start	1928	End	20196
Name	OJ000112_08.0426.C8.o1.tm	Method	TBLASTX:Maize
Start	7288	End	13548
GI	none	Score	139
Exons	7288..7401, 7441..7659, 10258..10473, 10384..10686, 10470..10703, 10719..11027, 10737..10916, 10768..10929, 10957..11184, 10958..11101, 13081..13548		

Seq. No.	55226	Seq. ID	OJ000112_08.0426.C8

Gene No.	115745	Strand	-
Start	1928	End	20196
Name	OJ000112_08.0426.C8.o2.tw	Method	TBLASTX:Wheat
Start	10543	End	13206
GI	none	Score	55
Exons	10543..10602, 10545..10697, 10719..10883, 10768..10884, 13127..13192, 13138..13206		

Seq. No.	55226	Seq. ID	OJ000112_08.0426.C8
Gene No.	115745	Strand	-
Start	1928	End	20196
Name	OJ000112_08.0426.C8.o4.tm	Method	TBLASTX:Maize
Start	11185	End	13755
GI	none	Score	71
Exons	11185..11265, 11314..11376, 13549..13755, 13552..13755		

Seq. No.	55226	Seq. ID	OJ000112_08.0426.C8
Gene No.	115745	Strand	-
Start	1928	End	20196
Name	OJ000112_08.0426.C8.o3.gs	Method	GENSCAN
Start	13036	End	18653
GI	none	Score	.65
Exons	13036..13428, 13719..13964, 14518..14816, 15093..15205, 15252..15861, 15908..16047, 16455..17017, 17043..17135, 17156..17588, 17881..18653		

Seq. No.	55226	Seq. ID	OJ000112_08.0426.C8
Gene No.	115745	Strand	-
Start	1928	End	20196
Name	OJ000112_08.0426.C8.o3.tw	Method	TBLASTX:Wheat
Start	13408	End	13743
GI	none	Score	74
Exons	13408..13614, 13594..13743		

Seq. No.	55226	Seq. ID	OJ000112_08.0426.C8
Gene No.	115745	Strand	-
Start	1928	End	20196
Name	OJ000112_08.0426.C8.o6.np	Method	AAT/NAP
Start	16162	End	20196
GI	4416302	Score	316
Exons	16162..16219, 18834..19723, 20165..20196		
GI Descrip.	(AF105716) copia-type pol polyprotein [Zea mays]		

Seq. No.	55226	Seq. ID	OJ000112_08.0426.C8
Gene No.	115745	Strand	-
Start	1928	End	20196
Name	OJ000112_08.0426.C8.o4.np	Method	AAT/NAP
Start	16539	End	19717
GI	3777527	Score	323
Exons	16539..16558, 18834..19307, 19465..19717		
GI Descrip.	(AF053008) gag-pol polyprotein [Glycine max]		

Seq. No.	55226	Seq. ID	OJ000112_08.0426.C8
Gene No.	115745	Strand	-
Start	1928	End	20196
Name	OJ000112_08.0426.C8.o1.ts	Method	TBLASTX:Soybean
Start	18838	End	19113

GI	5509260	Score	135
Exons	18838..19104, 18860..19069, 18874..19113		
GI Descrip.	-		

Seq. No.	55226	Seq. ID	OJ000112_08.0426.C8
Gene No.	115745	Strand	-
Start	1928	End	20196
Name	OJ000112_08.0426.C8.o4.gs	Method	GENSCAN
Start	18919	End	19437
GI	none	Score	.69
Exons	18919..19437		

Seq. No.	55227	Seq. ID	OJ000112_08.0426.C9
Gene No.	115746	Strand	+
Start	6720	End	8038
Name	OJ000112_08.0426.C9.o2.np	Method	AAT/NAP
Start	6720	End	8038
GI	6721519	Score	158
Exons	6720..6825, 7008..7158, 7968..8038		
GI Descrip.	(AP001072) EST AU082116(E4026) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	55227	Seq. ID	OJ000112_08.0426.C9
Gene No.	115747	Strand	-
Start	825	End	7559
Name	OJ000112_08.0426.C9.o1.gs	Method	GENSCAN
Start	825	End	7559
GI	none	Score	.62
Exons	825..976, 1039..1114, 1295..1377, 2545..2888, 4153..4202, 4558..4741, 4781..4918, 6744..6834, 7430..7559		

Seq. No.	55227	Seq. ID	OJ000112_08.0426.C9
Gene No.	115747	Strand	-
Start	825	End	7559
Name	OJ000112_08.0426.C9.o1.ts	Method	TBLASTX:Soybean
Start	1028	End	4611
GI	none	Score	106
Exons	1028..1108, 1295..1378, 2543..2695, 2544..2675, 2705..2887, 2709..2855, 2831..2905, 4504..4611		

Seq. No.	55227	Seq. ID	OJ000112_08.0426.C9
Gene No.	115747	Strand	-
Start	825	End	7559
Name	OJ000112_08.0426.C9.o1.np	Method	AAT/NAP
Start	1035	End	4814
GI	5042408	Score	699
Exons	1035..1114, 1295..1380, 2527..2888, 4153..4202, 4495..4631, 4781..4814		
GI Descrip.	(AC006193) very similar to alcohol dehydrogenase [Arabidopsis thaliana]		

Seq. No.	55227	Seq. ID	OJ000112_08.0426.C9
Gene No.	115747	Strand	-
Start	825	End	7559
Name	OJ000112_08.0426.C9.o1.tc	Method	TBLASTX:Cress
Start	1286	End	4611
GI	none	Score	90

Exons	1286..1378, 2489..2689, 2543..2674, 2544..2741, 2702..2887, 2793..2855, 4495..4611		
Seq. No.	55227	Seq. ID	OJ000112_08.0426.C9
Gene No.	115747	Strand	-
Start	825	End	7559
Name	OJ000112_08.0426.C9.o1.gp	Method	AAT/GAP
Start	1296	End	4913
GI	12457_1.R1084	Score	1375
Exons	1296..1377, 2545..2888, 4153..4202, 4495..4631, 4781..4913		
GI Descrip.	'5042408/gb|AAD38247.1|AC006193_3 5.0e-72 (AC006193) very similar to alcohol dehydrogenase [Arabidopsis thaliana]'		

Seq. No.	55227	Seq. ID	OJ000112_08.0426.C9
Gene No.	115747	Strand	-
Start	825	End	7559
Name	OJ000112_08.0426.C9.o1.tm	Method	TBLASTX:Maize
Start	1301	End	2890
GI	none	Score	108
Exons	1301..1378, 1302..1379, 1302..1385, 2543..2890, 2544..2855		

Seq. No.	55227	Seq. ID	OJ000112_08.0426.C9
Gene No.	115747	Strand	-
Start	825	End	7559
Name	OJ000112_08.0426.C9.o1.tw	Method	TBLASTX:Wheat
Start	4164	End	4817
GI	none	Score	76
Exons	4164..4202, 4495..4617, 4496..4564, 4782..4817		

Seq. No.	55227	Seq. ID	OJ000112_08.0426.C9
Gene No.	115747	Strand	-
Start	825	End	7559
Name	OJ000112_08.0426.C9.o2.gp	Method	AAT/GAP
Start	4975	End	5087
GI	LIB3477-003-P1-K1-E9	Score	167
Exons	4975..5087		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	55228	Seq. ID	OJ000112_08.0426.C11
Gene No.	115748	Strand	+
Start	1213	End	1452
Name	OJ000112_08.0426.C11.o1.gs	Method	GENSCAN
Start	1213	End	1452
GI	none	Score	.72
Exons	1213..1452		

Seq. No.	55228	Seq. ID	OJ000112_08.0426.C11
Gene No.	115749	Strand	+
Start	2258	End	10800
Name	OJ000112_08.0426.C11.o2.gs	Method	GENSCAN
Start	2258	End	10424
GI	none	Score	.76
Exons	2258..2338, 3005..3184, 5118..5146, 5697..5902, 6072..6196, 6349..6469, 7058..7206, 7312..8672, 8721..9738, 9908..9998, 10342..10424		

Seq. No.	55228	Seq. ID	OJ000112_08.0426.C11
Gene No.	115749	Strand	+
Start	2258	End	10800
Name	OJ000112_08.0426.C11.o1.np	Method	AAT/NAP
Start	2963	End	4599
GI	6539588	Score	118
Exons	2963..3227, 4571..4599		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	55228	Seq. ID	OJ000112_08.0426.C11
Gene No.	115749	Strand	+
Start	2258	End	10800
Name	OJ000112_08.0426.C11.o2.np	Method	AAT/NAP
Start	8251	End	10800
GI	6815062	Score	2087
Exons	8251..9756, 9928..9998, 10090..10800		
GI Descrip.	(AP001080) Similar to Arabidopsis thaliana chromosome II BAC F16P2 genomic sequence;mudrA like protein (AC004561) [Oryza sativa]		

Seq. No.	55228	Seq. ID	OJ000112_08.0426.C11
Gene No.	115749	Strand	+
Start	2258	End	10800
Name	OJ000112_08.0426.C11.o1.tm	Method	TBLASTX:Maize
Start	8293	End	8859
GI	none	Score	139
Exons	8293..8442, 8469..8816, 8470..8859, 8475..8837		

Seq. No.	55228	Seq. ID	OJ000112_08.0426.C11
Gene No.	115749	Strand	+
Start	2258	End	10800
Name	OJ000112_08.0426.C11.o3.tm	Method	TBLASTX:Maize
Start	8986	End	9264
GI	none	Score	189
Exons	8986..9264		

Seq. No.	55228	Seq. ID	OJ000112_08.0426.C11
Gene No.	115749	Strand	+
Start	2258	End	10800
Name	OJ000112_08.0426.C11.o2.tm	Method	TBLASTX:Maize
Start	10290	End	10794
GI	none	Score	91
Exons	10290..10415, 10291..10425, 10456..10794, 10456..10710, 10485..10790		

Seq. No.	55229	Seq. ID	OJ000112_08.0426.C12
Gene No.	115750	Strand	+
Start	1	End	1206
Name	OJ000112_08.0426.C12.o1.np	Method	AAT/NAP
Start	1	End	1165
GI	6815062	Score	431
Exons	1..220, 279..588, 665..763, 833..883, 990..1165		
GI Descrip.	(AP001080) Similar to Arabidopsis thaliana chromosome II BAC F16P2 genomic sequence;mudrA like protein (AC004561) [Oryza sativa]		

Seq. No.	55229	Seq. ID	OJ000112_08.0426.C12
Gene No.	115750	Strand	+
Start	1	End	1206
Name	OJ000112_08.0426.C12.o1.tm	Method	TBLASTX:Maize
Start	19	End	588
GI	none	Score	203
Exons	19..189, 30..188, 73..189, 286..363, 403..588		

Seq. No.	55229	Seq. ID	OJ000112_08.0426.C12
Gene No.	115750	Strand	+
Start	1	End	1206
Name	OJ000112_08.0426.C12.o1.gs	Method	GENSCAN
Start	95	End	1206
GI	none	Score	.64
Exons	95..188, 294..386, 447..588, 665..763, 833..1206		

Seq. No.	55230	Seq. ID	OJ000112_08.0426.C14
Gene No.	115751	Strand	+
Start	643	End	1409
Name	OJ000112_08.0426.C14.o1.np	Method	AAT/NAP
Start	643	End	1409
GI	6714279	Score	309
Exons	643..710, 1029..1194, 1286..1409		
GI Descrip.	(AC017118) F6N18.16 [Arabidopsis thaliana]		

Seq. No.	55230	Seq. ID	OJ000112_08.0426.C14
Gene No.	115751	Strand	+
Start	643	End	1409
Name	OJ000112_08.0426.C14.o1.gs	Method	GENSCAN
Start	657	End	1392
GI	none	Score	.93
Exons	657..710, 813..908, 1029..1190, 1276..1392		

Seq. No.	55230	Seq. ID	OJ000112_08.0426.C14
Gene No.	115752	Strand	+
Start	6383	End	15830
Name	OJ000112_08.0426.C14.o2.np	Method	AAT/NAP
Start	6383	End	8709
GI	6539588	Score	202
Exons	6383..6409, 7113..7387, 8610..8709		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	55230	Seq. ID	OJ000112_08.0426.C14
Gene No.	115752	Strand	+
Start	6383	End	15830
Name	OJ000112_08.0426.C14.o3.gs	Method	GENSCAN
Start	8367	End	9698
GI	none	Score	.58
Exons	8367..8571, 9412..9698		

Seq. No.	55230	Seq. ID	OJ000112_08.0426.C14
Gene No.	115752	Strand	+
Start	6383	End	15830
Name	OJ000112_08.0426.C14.o3.np	Method	AAT/NAP
Start	8370	End	15317
GI	2738887	Score	111
Exons	8370..8582, 11824..11924, 14286..14363, 15009..15317		

GI Descrip. (AF019144) low molecular weight heat shock protein [Agrostis stolonifera var. palustris]

Seq. No.	55230	Seq. ID	OJ000112_08.0426.C14
Gene No.	115752	Strand	+
Start	6383	End	15830
Name	OJ000112_08.0426.C14.o4.gs	Method	GENSCAN
Start	11218	End	15830
GI	none	Score	.73
Exons	11218..11259, 11520..11549, 11711..11917, 12193..12259, 12322..12359, 13718..13885, 14202..14298, 14980..15830		

Seq. No.	55230	Seq. ID	OJ000112_08.0426.C14
Gene No.	115753	Strand	+
Start	16941	End	20236
Name	OJ000112_08.0426.C14.o1.tm	Method	TBLASTX:Maize
Start	635	End	1394
GI	none	Score	94
Exons	635..718, 648..713, 810..908, 812..916, 813..908, 1026..1181, 1028..1192, 1029..1190, 1276..1392, 1276..1392, 1284..1394		

Seq. No.	55230	Seq. ID	OJ000112_08.0426.C14
Gene No.	115753	Strand	+
Start	16941	End	20236
Name	OJ000112_08.0426.C14.o1.tc	Method	TBLASTX:Cress
Start	648	End	1392
GI	none	Score	68
Exons	648..710, 816..926, 818..919, 1028..1189, 1029..1193, 1285..1392		

Seq. No.	55230	Seq. ID	OJ000112_08.0426.C14
Gene No.	115753	Strand	+
Start	16941	End	20236
Name	OJ000112_08.0426.C14.o1.ts	Method	TBLASTX:Soybean
Start	651	End	1398
GI	none	Score	63
Exons	651..710, 653..703, 815..868, 816..869, 1020..1193, 1026..1193, 1028..1216, 1233..1379, 1285..1398		

Seq. No.	55230	Seq. ID	OJ000112_08.0426.C14
Gene No.	115753	Strand	+
Start	16941	End	20236
Name	OJ000112_08.0426.C14.o2.tm	Method	TBLASTX:Maize
Start	9321	End	15297
GI	none	Score	112
Exons	9321..9449, 14976..15134, 14978..15280, 14981..15280, 15165..15281, 15166..15297		

Seq. No.	55230	Seq. ID	OJ000112_08.0426.C14
Gene No.	115753	Strand	+
Start	16941	End	20236
Name	OJ000112_08.0426.C14.o5.gs	Method	GENSCAN
Start	16941	End	20111
GI	none	Score	.54
Exons	16941..17034, 17388..17528, 17681..17770, 17896..18099, 18578..18822, 19178..19883, 20044..20111		

Seq. No.	55230	Seq. ID	OJ000112_08.0426.C14

Gene No.	115753	Strand	+
Start	16941	End	20236
Name	OJ000112_08.0426.C14.o4.np	Method	AAT/NAP
Start	17245	End	20236
GI	6539588	Score	143
Exons	17245..17564, 20201..20236		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	55231	Seq. ID	OJ000322_06.0424.C3
Gene No.	115754	Strand	
Start	697	End	1026
Name	OJ000322_06.0424.C3.o1.tm	Method	TBLASTX:Maize
Start	697	End	1026
GI	none	Score	63
Exons	697..1026, 757..807		

Seq. No.	55232	Seq. ID	OJ000322_06.0424.C4
Gene No.	115755	Strand	-
Start	187	End	4041
Name	OJ000322_06.0424.C4.o1.ts	Method	TBLASTX:Soybean
Start	26	End	544
GI	none	Score	46
Exons	26..118, 45..122, 194..292, 210..293, 314..544		

Seq. No.	55232	Seq. ID	OJ000322_06.0424.C4
Gene No.	115755	Strand	-
Start	187	End	4041
Name	OJ000322_06.0424.C4.o1.gs	Method	GENSCAN
Start	187	End	4041
GI	none	Score	.5
Exons	187..223, 506..699, 2436..2678, 3126..4041		

Seq. No.	55232	Seq. ID	OJ000322_06.0424.C4
Gene No.	115755	Strand	-
Start	187	End	4041
Name	OJ000322_06.0424.C4.o1.tm	Method	TBLASTX:Maize
Start	194	End	1035
GI	none	Score	57
Exons	194..301, 320..790, 321..443, 497..625, 672..755, 808..1035, 809..922		

Seq. No.	55232	Seq. ID	OJ000322_06.0424.C4
Gene No.	115755	Strand	-
Start	187	End	4041
Name	OJ000322_06.0424.C4.o1.np	Method	AAT/NAP
Start	725	End	1119
GI	7489553	Score	508
Exons	725..1119		
GI Descrip.	probable reverse transcriptase - rice (fragment) gi|2462640|emb|CAA73800.1| (Y13370) reverse transcriptase [Oryza sativa]		

Seq. No.	55232	Seq. ID	OJ000322_06.0424.C4
Gene No.	115755	Strand	-
Start	187	End	4041
Name	OJ000322_06.0424.C4.o1.tw	Method	TBLASTX:Wheat
Start	1868	End	2179

GI	none	Score	75
Exons	1868..2068, 1869..2069, 2075..2179, 2077..2133		

Seq. No.	55233	Seq. ID	OJ000322_06.0424.C11
Gene No.	115756	Strand	+
Start	1213	End	1851
Name	OJ000322_06.0424.C11.o1.np	Method	AAT/NAP
Start	1213	End	1851
GI	7486949	Score	183
Exons	1213..1425, 1465..1623, 1651..1851		
GI Descrip.	hypothetical protein T13J8.10 - Arabidopsis thaliana gi|4455349|emb|CAB36759.1| (AL035524) putative protein [Arabidopsis thaliana] gi|7269644|emb|CAB79592.1| (AL161572) putative protein [Arabidopsis thaliana]		

Seq. No.	55233	Seq. ID	OJ000322_06.0424.C11
Gene No.	115756	Strand	+
Start	1213	End	1851
Name	OJ000322_06.0424.C11.o1.tm	Method	TBLASTX:Maize
Start	1308	End	1749
GI	none	Score	86
Exons	1308..1397, 1314..1457, 1314..1475, 1315..1458, 1315..1419, 1319..1459, 1321..1419, 1322..1420, 1429..1632, 1467..1637, 1468..1635, 1469..1645, 1541..1636, 1653..1700, 1654..1698, 1698..1742, 1699..1749, 1701..1748		

Seq. No.	55233	Seq. ID	OJ000322_06.0424.C11
Gene No.	115756	Strand	+
Start	1213	End	1851
Name	OJ000322_06.0424.C11.o1.tc	Method	TBLASTX:Cress
Start	1309	End	1602
GI	none	Score	165
Exons	1309..1524, 1345..1464, 1519..1602		

Seq. No.	55233	Seq. ID	OJ000322_06.0424.C11
Gene No.	115756	Strand	+
Start	1213	End	1851
Name	OJ000322_06.0424.C11.o1.gp	Method	AAT/GAP
Start	1315	End	1661
GI	22975_1.R1084	Score	643
Exons	1315..1661		
GI Descrip.	'4455349/emb|CAB36759.1| 5.0e-16 (AL035524) putative protein [Arabidopsis thaliana]'		

Seq. No.	55233	Seq. ID	OJ000322_06.0424.C11
Gene No.	115756	Strand	+
Start	1213	End	1851
Name	OJ000322_06.0424.C11.o1.ts	Method	TBLASTX:Soybean
Start	1318	End	1842
GI	none	Score	302
Exons	1318..1632, 1342..1632, 1705..1764, 1710..1766, 1765..1842		

Seq. No.	55233	Seq. ID	OJ000322_06.0424.C11
Gene No.	115756	Strand	+
Start	1213	End	1851
Name	OJ000322_06.0424.C11.o1.gs	Method	GENSCAN
Start	1321	End	1843

GI	none	Score	.67
Exons	1321..1843		

Seq. No.	55234	Seq. ID	OJ000322_06.0424.C13
Gene No.	115757	Strand	+
Start	252	End	1057
Name	OJ000322_06.0424.C13.o1.gp	Method	AAT/GAP
Start	252	End	815
GI	none	Score	1074
Exons	252..815		

Seq. No.	55234	Seq. ID	OJ000322_06.0424.C13
Gene No.	115757	Strand	+
Start	252	End	1057
Name	OJ000322_06.0424.C13.o1.gs	Method	GENSCAN
Start	318	End	1057
GI	none	Score	.68
Exons	318..476, 917..1057		

Seq. No.	55235	Seq. ID	OJ000322_06.0424.C14
Gene No.	115758	Strand	+
Start	1	End	1825
Name	OJ000322_06.0424.C14.o1.np	Method	AAT/NAP
Start	1	End	1765
GI	5042463	Score	143
Exons	1..259, 1735..1765		
GI Descrip.	(AC007789) unknown protein [Oryza sativa]		

Seq. No.	55235	Seq. ID	OJ000322_06.0424.C14
Gene No.	115758	Strand	+
Start	1	End	1825
Name	OJ000322_06.0424.C14.o2.np	Method	AAT/NAP
Start	484	End	891
GI	7489553	Score	347
Exons	484..891		
GI Descrip.	probable reverse transcriptase - rice (fragment) gi|2462640|emb|CAA73800.1| (Y13370) reverse transcriptase [Oryza sativa]		

Seq. No.	55235	Seq. ID	OJ000322_06.0424.C14
Gene No.	115758	Strand	+
Start	1	End	1825
Name	OJ000322_06.0424.C14.o2.tm	Method	TBLASTX:Maize
Start	569	End	1287
GI	none	Score	143
Exons	569..841, 861..884, 862..1032, 907..1287, 1007..1021, 1098..1286		

Seq. No.	55235	Seq. ID	OJ000322_06.0424.C14
Gene No.	115758	Strand	+
Start	1	End	1825
Name	OJ000322_06.0424.C14.o1.tm	Method	TBLASTX:Maize
Start	1392	End	1825
GI	none	Score	75
Exons	1392..1451, 1480..1626, 1481..1657, 1637..1714, 1721..1825		

Seq. No.	55235	Seq. ID	OJ000322_06.0424.C14
Gene No.	115758	Strand	+

Start	1	End	1825
Name	OJ000322_06.0424.C14.o1.tw	Method	TBLASTX:Wheat
Start	1431	End	1768
GI	none	Score	39
Exons	1431..1478, 1477..1626, 1481..1648, 1645..1728, 1646..1768		

Seq. No.	55236	Seq. ID	OJ000322_06.0424.C15
Gene No.	115759	Strand	+
Start	1985	End	2255
Name	OJ000322_06.0424.C15.o1.np	Method	AAT/NAP
Start	1985	End	2255
GI	7248394	Score	273
Exons	1985..2255		
GI Descrip.	(AP001389) ESTs C97394(C60113),AU075824(R0165),D38985(R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15O11 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)		

Seq. No.	55236	Seq. ID	OJ000322_06.0424.C15
Gene No.	115760	Strand	-
Start	1249	End	7374
Name	OJ000322_06.0424.C15.o1.gs	Method	GENSCAN
Start	1249	End	7374
GI	none	Score	.46
Exons	1249..1285, 2297..2387, 2515..2631, 2854..3001, 3315..3418, 4809..6540, 6792..6914, 7234..7374		

Seq. No.	55237	Seq. ID	OJ000322_06.0424.C16
Gene No.	115761	Strand	+
Start	254	End	925
Name	OJ000322_06.0424.C16.o1.np	Method	AAT/NAP
Start	254	End	925
GI	7248394	Score	404
Exons	254..467, 593..925		
GI Descrip.	(AP001389) ESTs C97394(C60113),AU075824(R0165),D38985(R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15O11 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)		

Seq. No.	55238	Seq. ID	OJ000322_06.0424.C17
Gene No.	115762	Strand	+
Start	1140	End	3219
Name	OJ000322_06.0424.C17.o1.np	Method	AAT/NAP
Start	1140	End	3219
GI	7248394	Score	38
Exons	1140..1192, 2941..3024, 3068..3219		
GI Descrip.	(AP001389) ESTs C97394(C60113),AU075824(R0165),D38985(R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15O11 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)		

Seq. No.	55238	Seq. ID	OJ000322_06.0424.C17
Gene No.	115763	Strand	-
Start	245	End	1794

Name	OJ000322_06.0424.C17.o1.gs	Method	GENSCAN
Start	245	End	1794
GI	none	Score	.49
Exons	245..391, 1727..1794		

Seq. No.	55238	Seq. ID	OJ000322_06.0424.C17
Gene No.	115764	Strand	-
Start	2620	End	4475
Name	OJ000322_06.0424.C17.o2.gs	Method	GENSCAN
Start	2620	End	4475
GI	none	Score	.59
Exons	2620..2779, 4226..4475		

Seq. No.	55239	Seq. ID	OJ000322_06.0424.C18
Gene No.	115765	Strand	+
Start	3784	End	4315
Name	OJ000322_06.0424.C18.o1.gp	Method	AAT/GAP
Start	3784	End	4315
GI	316_1.R1084	Score	772
Exons	3784..3912, 4042..4315		
GI Descrip.	'1362172/pir||S57459 0.0e+00 hook-containing protein AT1 - rice >gi_871496_emb_CAA61276_ (X88798) putative [Oryza sativa]'		

Seq. No.	55239	Seq. ID	OJ000322_06.0424.C18
Gene No.	115765	Strand	+
Start	3784	End	4315
Name	OJ000322_06.0424.C18.o2.np	Method	AAT/NAP
Start	3835	End	4315
GI	1362172	Score	526
Exons	3835..3912, 4042..4315		
GI Descrip.	hook-containing protein AT1 - rice gi|871496|emb|CAA61276.1| (X88798) putative [Oryza sativa]		

Seq. No.	55239	Seq. ID	OJ000322_06.0424.C18
Gene No.	115766	Strand	-
Start	116	End	2313
Name	OJ000322_06.0424.C18.o1.np	Method	AAT/NAP
Start	116	End	2313
GI	7452464	Score	596
Exons	116..189, 302..1538, 2218..2313		
GI Descrip.	hypothetical protein T21L14.9 - Arabidopsis thaliana gi|2702270|gb|AAB91973.1| (AC003033) unknown protein [Arabidopsis thaliana]		

Seq. No.	55239	Seq. ID	OJ000322_06.0424.C18
Gene No.	115766	Strand	-
Start	116	End	2313
Name	OJ000322_06.0424.C18.o1.gs	Method	GENSCAN
Start	302	End	1939
GI	none	Score	.62
Exons	302..1017, 1196..1667, 1745..1939		

Seq. No.	55239	Seq. ID	OJ000322_06.0424.C18
Gene No.	115767	Strand	-
Start	3718	End	4100
Name	OJ000322_06.0424.C18.o1.tm	Method	TBLASTX:Maize
Start	704	End	1006

GI	none	Score	190
Exons	704..1006, 711..962		
Seq. No.	55239	Seq. ID	OJ000322_06.0424.C18
Gene No.	115767	Strand	-
Start	3718	End	4100
Name	OJ000322_06.0424.C18.o1.ts	Method	TBLASTX:Soybean
Start	704	End	877
GI	none	Score	136
Exons	704..877, 711..875		
Seq. No.	55239	Seq. ID	OJ000322_06.0424.C18
Gene No.	115767	Strand	-
Start	3718	End	4100
Name	OJ000322_06.0424.C18.o2.tm	Method	TBLASTX:Maize
Start	1296	End	1532
GI	none	Score	84
Exons	1296..1532, 1354..1512		
Seq. No.	55239	Seq. ID	OJ000322_06.0424.C18
Gene No.	115767	Strand	-
Start	3718	End	4100
Name	OJ000322_06.0424.C18.o2.gs	Method	GENSCAN
Start	3718	End	4100
GI	none	Score	.64
Exons	3718..3775, 3857..3902, 4013..4100		
Seq. No.	55240	Seq. ID	OJ000322_06.0424.C19
Gene No.	115768	Strand	+
Start	1	End	1294
Name	OJ000322_06.0424.C19.o1.gp	Method	AAT/GAP
Start	1	End	1294
GI	316_1.R1084	Score	2533
Exons	1..1294		
GI Descrip.	'1362172/pir||S57459 0.0e+00 hook-containing protein AT1 - rice >gi_871496_emb_CAA61276_ (X88798) putative [Oryza sativa]'		
Seq. No.	55240	Seq. ID	OJ000322_06.0424.C19
Gene No.	115768	Strand	+
Start	1	End	1294
Name	OJ000322_06.0424.C19.o1.np	Method	AAT/NAP
Start	1	End	1075
GI	1362172	Score	1831
Exons	1..1075		
GI Descrip.	hook-containing protein AT1 - rice gi|871496|emb|CAA61276.1| (X88798) putative [Oryza sativa]		
Seq. No.	55240	Seq. ID	OJ000322_06.0424.C19
Gene No.	115769	Strand	+
Start	4385	End	5271
Name	OJ000322_06.0424.C19.o2.gp	Method	AAT/GAP
Start	4385	End	5271
GI	4521_1.R1084	Score	200
Exons	4385..4478, 5227..5271		
GI Descrip.	'2257756 1.0e-37 (U82815) nucleolar histone deacetylase HD2-p39 [Zea mays] >gi_3650466 (AF026917) histone deacetylase HD2-p39 [Zea mays]'		

Seq. No.	55240	Seq. ID	OJ000322_06.0424.C19
Gene No.	115770	Strand	-
Start	2547	End	4899
Name	OJ000322_06.0424.C19.o2.gs	Method	GENSCAN
Start	2547	End	4899
GI	none	Score	.84
Exons	2547..2653, 3823..3966, 4884..4899		

Seq. No.	55241	Seq. ID	OJ000322_06.0424.C20
Gene No.	115771	Strand	+
Start	1	End	2177
Name	OJ000322_06.0424.C20.o1.gp	Method	AAT/GAP
Start	1	End	1611
GI	4521_1.R1084	Score	1693
Exons	1..135, 266..293, 364..408, 513..669, 749..817, 937..1033, 1120..1252, 1334..1611		
GI Descrip.	'2257756 1.0e-37 (U82815) nucleolar histone deacetylase HD2-p39 [Zea mays] >gi_3650466 (AF026917) histone deacetylase HD2-p39 [Zea mays]'		

Seq. No.	55241	Seq. ID	OJ000322_06.0424.C20
Gene No.	115771	Strand	+
Start	1	End	2177
Name	OJ000322_06.0424.C20.o1.np	Method	AAT/NAP
Start	1	End	1406
GI	7489751	Score	419
Exons	1..148, 361..411, 522..669, 734..817, 937..1033, 1120..1252, 1334..1406		
GI Descrip.	histone deacetylase (EC 3.5.1.-) HD2-p39, nucleolar - maize gi|2257756|gb|AAB63262.1| (U82815) nucleolar histone deacetylase HD2-p39 [Zea mays] gi|3650466|gb|AAC61674.1| (AF026917) histone deacetylase HD2-p39 [Zea mays]		

Seq. No.	55241	Seq. ID	OJ000322_06.0424.C20
Gene No.	115771	Strand	+
Start	1	End	2177
Name	OJ000322_06.0424.C20.o1.tm	Method	TBLASTX:Maize
Start	1	End	144
GI	none	Score	194
Exons	1..144, 3..143		

Seq. No.	55241	Seq. ID	OJ000322_06.0424.C20
Gene No.	115771	Strand	+
Start	1	End	2177
Name	OJ000322_06.0424.C20.o1.gs	Method	GENSCAN
Start	749	End	2177
GI	none	Score	.62
Exons	749..817, 937..1033, 1120..1221, 2113..2177		

Seq. No.	55241	Seq. ID	OJ000322_06.0424.C20
Gene No.	115771	Strand	+
Start	1	End	2177
Name	OJ000322_06.0424.C20.o2.tm	Method	TBLASTX:Maize
Start	750	End	1394
GI	none	Score	37
Exons	750..830, 753..860, 934..966, 948..1034, 949..1035, 970..1041,		

1119..1163, 1122..1160, 1136..1162, 1186..1248, 1220..1252, 1222..1257, 1331..1393, 1332..1394

Seq. No.	55242	Seq. ID	OJ000322_06.0424.C21
Gene No.	115772	Strand	+
Start	1555	End	1666
Name	OJ000322_06.0424.C21.o2.np	Method	AAT/NAP
Start	1555	End	1666
GI	5777617	Score	82
Exons	1555..1666		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	55242	Seq. ID	OJ000322_06.0424.C21
Gene No.	115773	Strand	-
Start	1	End	670
Name	OJ000322_06.0424.C21.o1.np	Method	AAT/NAP
Start	1	End	670
GI	6862916	Score	379
Exons	1..309, 383..479, 575..670		
GI Descrip.	(AC018907) putative helix-loop-helix DNA-binding protein [Arabidopsis thaliana]		

Seq. No.	55242	Seq. ID	OJ000322_06.0424.C21
Gene No.	115773	Strand	-
Start	1	End	670
Name	OJ000322_06.0424.C21.o1.gs	Method	GENSCAN
Start	57	End	670
GI	none	Score	.88
Exons	57..479, 575..670		

Seq. No.	55242	Seq. ID	OJ000322_06.0424.C21
Gene No.	115774	Strand	-
Start	817	End	2221
Name	OJ000322_06.0424.C21.o1.ts	Method	TBLASTX:Soybean
Start	396	End	671
GI	none	Score	59
Exons	396..482, 397..480, 575..670, 585..671		

Seq. No.	55242	Seq. ID	OJ000322_06.0424.C21
Gene No.	115774	Strand	-
Start	817	End	2221
Name	OJ000322_06.0424.C21.o2.gs	Method	GENSCAN
Start	817	End	2221
GI	none	Score	.62
Exons	817..881, 925..999, 1370..1529, 1661..2221		

Seq. No.	55243	Seq. ID	OJ000322_06.0424.C22
Gene No.	115775	Strand	+
Start	6336	End	8431
Name	OJ000322_06.0424.C22.o2.gs	Method	GENSCAN
Start	6336	End	8034
GI	none	Score	.74
Exons	6336..6602, 6689..6842, 6968..7041, 7204..7353, 7492..7596, 7708..7853, 7911..8034		

Seq. No.	55243	Seq. ID	OJ000322_06.0424.C22
Gene No.	115775	Strand	+

Start	6336	End	8431
Name	OJ000322_06.0424.C22.o2.np	Method	AAT/NAP
Start	6417	End	8431
GI	7492989	Score	251
Exons	6417..6602, 6689..6842, 6968..7041, 7204..7350, 7492..7607, 8320..8431		
GI Descrip.	probable SMC family protein - fission yeast (Schizosaccharomyces pombe) gi|3861449|emb|CAB11195.1| (Z98596) putative SMC family protein [Schizosaccharomyces pombe]		

Seq. No.	55243	Seq. ID	OJ000322_06.0424.C22
Gene No.	115776	Strand	-
Start	1464	End	6147
Name	OJ000322_06.0424.C22.o1.np	Method	AAT/NAP
Start	1415	End	6147
GI	6752919	Score	280
Exons	1415..1526, 2315..2391, 2456..2516, 2914..2987, 3062..3112, 4658..4725, 4843..4927, 5015..5175, 6069..6147		
GI Descrip.	(AF225708) CRS2 [Zea mays]		

Seq. No.	55243	Seq. ID	OJ000322_06.0424.C22
Gene No.	115776	Strand	-
Start	1464	End	6147
Name	OJ000322_06.0424.C22.o1.gs	Method	GENSCAN
Start	1464	End	4230
GI	none	Score	.65
Exons	1464..1526, 2315..2391, 2861..2987, 3062..3112, 4207..4230		

Seq. No.	55243	Seq. ID	OJ000322_06.0424.C22
Gene No.	115776	Strand	-
Start	1464	End	6147
Name	OJ000322_06.0424.C22.o1.gp	Method	AAT/GAP
Start	1552	End	1993
GI	none	Score	846
Exons	1552..1993		

Seq. No.	55243	Seq. ID	OJ000322_06.0424.C22
Gene No.	115776	Strand	-
Start	1464	End	6147
Name	OJ000322_06.0424.C22.o1.ts	Method	TBLASTX:Soybean
Start	3062	End	5083
GI	none	Score	67
Exons	3062..3109, 4652..4711, 4658..4726, 4659..4727, 4841..4924, 5004..5075, 5006..5083		

Seq. No.	55243	Seq. ID	OJ000322_06.0424.C22
Gene No.	115776	Strand	-
Start	1464	End	6147
Name	OJ000322_06.0424.C22.o1.tc	Method	TBLASTX:Cress
Start	4658	End	5075
GI	none	Score	68
Exons	4658..4735, 4659..4727, 4841..4945, 5004..5075, 5006..5074		

Seq. No.	55243	Seq. ID	OJ000322_06.0424.C22
Gene No.	115776	Strand	-
Start	1464	End	6147
Name	OJ000322_06.0424.C22.o1.tm	Method	TBLASTX:Maize

Start	4788	End	5170
GI	none	Score	112
Exons	4788..4925, 4807..4941, 4807..4920, 4811..4945, 4811..4924, 5004..5081, 5006..5086, 5006..5080, 5016..5114, 5138..5170		

Seq. No.	55243	Seq. ID	OJ000322_06.0424.C22
Gene No.	115777	Strand	-
Start	6420	End	6850
Name	OJ000322_06.0424.C22.o2.tm	Method	TBLASTX:Maize
Start	6420	End	6850
GI	none	Score	216
Exons	6420..6554, 6422..6502, 6688..6843, 6689..6844, 6689..6850		

Seq. No.	55244	Seq. ID	OJ000322_06.0424.C23
Gene No.	115778	Strand	+
Start	46	End	4600
Name	OJ000322_06.0424.C23.o1.gs	Method	GENSCAN
Start	46	End	4600
GI	none	Score	.81
Exons	46..123, 458..530, 1242..1345, 2259..2375, 4326..4403, 4501..4600		

Seq. No.	55244	Seq. ID	OJ000322_06.0424.C23
Gene No.	115778	Strand	+
Start	46	End	4600
Name	OJ000322_06.0424.C23.o1.gp	Method	AAT/GAP
Start	4497	End	4600
GI	12435_1.R1084	Score	155
Exons	4497..4600		
GI Descrip.	'3043712/dbj|BAA25520| 6.0e-42 (AB011166) KIAA0594 protein [Homo sapiens]'		

Seq. No.	55245	Seq. ID	OJ000322_06.0424.C24
Gene No.	115779	Strand	+
Start	427	End	1787
Name	OJ000322_06.0424.C24.o1.np	Method	AAT/NAP
Start	427	End	1064
GI	3043712	Score	186
Exons	427..479, 554..641, 750..826, 909..1064		
GI Descrip.	(AB011166) KIAA0594 protein [Homo sapiens]		

Seq. No.	55245	Seq. ID	OJ000322_06.0424.C24
Gene No.	115779	Strand	+
Start	427	End	1787
Name	OJ000322_06.0424.C24.o1.gp	Method	AAT/GAP
Start	429	End	1787
GI	12435_1.R1084	Score	1200
Exons	429..479, 554..641, 750..822, 905..1008, 1429..1787		
GI Descrip.	'3043712/dbj|BAA25520| 6.0e-42 (AB011166) KIAA0594 protein [Homo sapiens]'		

Seq. No.	55245	Seq. ID	OJ000322_06.0424.C24
Gene No.	115779	Strand	+
Start	427	End	1787
Name	OJ000322_06.0424.C24.o1.tm	Method	TBLASTX:Maize
Start	460	End	1481
GI	none	Score	41

Exons	460..480, 461..481, 546..641, 553..645, 557..643, 747..824, 748..825, 749..823, 903..1007, 904..1002, 905..1003, 906..1010, 907..1032, 1427..1480, 1428..1481		
Seq. No.	55245	Seq. ID	OJ000322_06.0424.C24
Gene No.	115779	Strand	+
Start	427	End	1787
Name	OJ000322_06.0424.C24.o1.gs	Method	GENSCAN
Start	554	End	1716
GI	none	Score	.73
Exons	554..822, 905..1008, 1378..1466, 1672..1716		
Seq. No.	55246	Seq. ID	OJ000322_06.0424.C25
Gene No.	115780	Strand	+
Start	514	End	1281
Name	OJ000322_06.0424.C25.o1.gs	Method	GENSCAN
Start	514	End	1281
GI	none	Score	.49
Exons	514..663, 1237..1281		
Seq. No.	55247	Seq. ID	OJ000322_06.0424.C26
Gene No.	115781	Strand	+
Start	1514	End	2469
Name	OJ000322_06.0424.C26.o1.gs	Method	GENSCAN
Start	1514	End	2469
GI	none	Score	.97
Exons	1514..1559, 2297..2469		
Seq. No.	55247	Seq. ID	OJ000322_06.0424.C26
Gene No.	115782	Strand	-
Start	3837	End	5623
Name	OJ000322_06.0424.C26.o1.gp	Method	AAT/GAP
Start	3675	End	4106
GI	none	Score	806
Exons	3675..4106		
Seq. No.	55247	Seq. ID	OJ000322_06.0424.C26
Gene No.	115782	Strand	-
Start	3837	End	5623
Name	OJ000322_06.0424.C26.o2.gs	Method	GENSCAN
Start	3837	End	4814
GI	none	Score	.96
Exons	3837..4814		
Seq. No.	55247	Seq. ID	OJ000322_06.0424.C26
Gene No.	115782	Strand	-
Start	3837	End	5623
Name	OJ000322_06.0424.C26.o1.np	Method	AAT/NAP
Start	3864	End	5623
GI	4580469	Score	380
Exons	3864..4902, 5565..5623		
GI Descrip.	(AC006081) putative RING zinc finger protein [Arabidopsis thaliana]		
Seq. No.	55247	Seq. ID	OJ000322_06.0424.C26
Gene No.	115782	Strand	-
Start	3837	End	5623

Name	OJ000322_06.0424.C26.o1.tc	Method	TBLASTX:Cress
Start	4434	End	4685
GI	none	Score	240
Exons	4434..4685		

Seq. No.	55247	Seq. ID	OJ000322_06.0424.C26
Gene No.	115782	Strand	-
Start	3837	End	5623
Name	OJ000322_06.0424.C26.o1.ts	Method	TBLASTX:Soybean
Start	4467	End	4688
GI	none	Score	66
Exons	4467..4685, 4611..4688		

Seq. No.	55248	Seq. ID	OJ000322_06.0424.C27
Gene No.	115783	Strand	+
Start	1022	End	1233
Name	OJ000322_06.0424.C27.o1.gs	Method	GENSCAN
Start	1022	End	1233
GI	none	Score	.84
Exons	1022..1233		

Seq. No.	55249	Seq. ID	OJ000322_06.0424.C28
Gene No.	115784	Strand	+
Start	5872	End	10432
Name	OJ000322_06.0424.C28.o1.np	Method	AAT/NAP
Start	5872	End	10432
GI	4680179	Score	6422
Exons	5872..10432		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	55249	Seq. ID	OJ000322_06.0424.C28
Gene No.	115784	Strand	+
Start	5872	End	10432
Name	OJ000322_06.0424.C28.o7.tw	Method	TBLASTX:Wheat
Start	6141	End	6504
GI	none	Score	272
Exons	6141..6503, 6145..6504		

Seq. No.	55249	Seq. ID	OJ000322_06.0424.C28
Gene No.	115784	Strand	+
Start	5872	End	10432
Name	OJ000322_06.0424.C28.o7.tm	Method	TBLASTX:Maize
Start	7072	End	7347
GI	none	Score	190
Exons	7072..7347		

Seq. No.	55249	Seq. ID	OJ000322_06.0424.C28
Gene No.	115784	Strand	+
Start	5872	End	10432
Name	OJ000322_06.0424.C28.o8.tw	Method	TBLASTX:Wheat
Start	7080	End	7434
GI	none	Score	262
Exons	7080..7226, 7081..7434, 7264..7407		

Seq. No.	55249	Seq. ID	OJ000322_06.0424.C28
Gene No.	115784	Strand	+
Start	5872	End	10432

Name	OJ000322_06.0424.C28.o4.tw	Method	TBLASTX:Wheat
Start	7609	End	8091
GI	none	Score	522
Exons	7609..8091, 7719..8048		

Seq. No.	55249	Seq. ID	OJ000322_06.0424.C28
Gene No.	115784	Strand	+
Start	5872	End	10432
Name	OJ000322_06.0424.C28.o4.tm	Method	TBLASTX:Maize
Start	7678	End	8145
GI	none	Score	361
Exons	7678..8145, 7749..7919, 7951..8112		

Seq. No.	55249	Seq. ID	OJ000322_06.0424.C28
Gene No.	115784	Strand	+
Start	5872	End	10432
Name	OJ000322_06.0424.C28.o1.ts	Method	TBLASTX:Soybean
Start	8032	End	8413
GI	none	Score	57
Exons	8032..8064, 8032..8064, 8068..8310, 8071..8145, 8075..8209, 8173..8307, 8291..8413, 8308..8412		

Seq. No.	55249	Seq. ID	OJ000322_06.0424.C28
Gene No.	115784	Strand	+
Start	5872	End	10432
Name	OJ000322_06.0424.C28.o6.tw	Method	TBLASTX:Wheat
Start	8140	End	8428
GI	none	Score	210
Exons	8140..8310, 8140..8298, 8169..8309, 8291..8428, 8311..8427		

Seq. No.	55249	Seq. ID	OJ000322_06.0424.C28
Gene No.	115784	Strand	+
Start	5872	End	10432
Name	OJ000322_06.0424.C28.o5.tm	Method	TBLASTX:Maize
Start	8161	End	8500
GI	none	Score	113
Exons	8161..8307, 8172..8276, 8291..8500, 8311..8493		

Seq. No.	55249	Seq. ID	OJ000322_06.0424.C28
Gene No.	115784	Strand	+
Start	5872	End	10432
Name	OJ000322_06.0424.C28.o2.tw	Method	TBLASTX:Wheat
Start	8429	End	8938
GI	none	Score	627
Exons	8429..8938, 8437..8847		

Seq. No.	55249	Seq. ID	OJ000322_06.0424.C28
Gene No.	115784	Strand	+
Start	5872	End	10432
Name	OJ000322_06.0424.C28.o3.ts	Method	TBLASTX:Soybean
Start	8438	End	8680
GI	none	Score	201
Exons	8438..8680, 8440..8565		

Seq. No.	55249	Seq. ID	OJ000322_06.0424.C28
Gene No.	115784	Strand	+
Start	5872	End	10432

Name	OJ000322_06.0424.C28.o2.tm	Method	TBLASTX:Maize
Start	8501	End	8854
GI	none	Score	476
Exons	8501..8854, 8503..8769, 8543..8839		

Seq. No.	55249	Seq. ID	OJ000322_06.0424.C28
Gene No.	115784	Strand	+
Start	5872	End	10432
Name	OJ000322_06.0424.C28.o3.tw	Method	TBLASTX:Wheat
Start	8942	End	9421
GI	none	Score	588
Exons	8942..9421, 8960..9415, 9037..9420		

Seq. No.	55249	Seq. ID	OJ000322_06.0424.C28
Gene No.	115784	Strand	+
Start	5872	End	10432
Name	OJ000322_06.0424.C28.o1.tc	Method	TBLASTX:Cress
Start	9119	End	9445
GI	none	Score	84
Exons	9119..9301, 9302..9445, 9367..9444		

Seq. No.	55249	Seq. ID	OJ000322_06.0424.C28
Gene No.	115784	Strand	+
Start	5872	End	10432
Name	OJ000322_06.0424.C28.o2.ts	Method	TBLASTX:Soybean
Start	9209	End	9469
GI	none	Score	293
Exons	9209..9469, 9214..9312, 9338..9370, 9401..9469		

Seq. No.	55249	Seq. ID	OJ000322_06.0424.C28
Gene No.	115784	Strand	+
Start	5872	End	10432
Name	OJ000322_06.0424.C28.o3.tm	Method	TBLASTX:Maize
Start	9267	End	9559
GI	none	Score	112
Exons	9267..9554, 9269..9559, 9339..9458, 9370..9555		

Seq. No.	55249	Seq. ID	OJ000322_06.0424.C28
Gene No.	115784	Strand	+
Start	5872	End	10432
Name	OJ000322_06.0424.C28.o1.tw	Method	TBLASTX:Wheat
Start	9428	End	10054
GI	none	Score	648
Exons	9428..10054, 9484..10053		

Seq. No.	55249	Seq. ID	OJ000322_06.0424.C28
Gene No.	115784	Strand	+
Start	5872	End	10432
Name	OJ000322_06.0424.C28.o1.tm	Method	TBLASTX:Maize
Start	9611	End	10195
GI	none	Score	224
Exons	9611..9769, 9616..9750, 9627..9758, 9767..9865, 9767..9835, 9769..9864, 9926..10195, 9934..10194		

Seq. No.	55249	Seq. ID	OJ000322_06.0424.C28
Gene No.	115784	Strand	+
Start	5872	End	10432

Name	OJ000322_06.0424.C28.o5.tw	Method	TBLASTX:Wheat
Start	10054	End	10387
GI	none	Score	348
Exons	10054..10191, 10055..10387, 10306..10365		

Seq. No.	55249	Seq. ID	OJ000322_06.0424.C28
Gene No.	115784	Strand	+
Start	5872	End	10432
Name	OJ000322_06.0424.C28.o6.tm	Method	TBLASTX:Maize
Start	10196	End	10408
GI	none	Score	193
Exons	10196..10408		

Seq. No.	55250	Seq. ID	OJ000322_06.0424.C29
Gene No.	115785	Strand	+
Start	1555	End	1737
Name	OJ000322_06.0424.C29.o1.gs	Method	GENSCAN
Start	1555	End	1737
GI	none	Score	.51
Exons	1555..1737		

Seq. No.	55250	Seq. ID	OJ000322_06.0424.C29
Gene No.	115786	Strand	-
Start	1	End	1887
Name	OJ000322_06.0424.C29.o1.np	Method	AAT/NAP
Start	1	End	1887
GI	5918469	Score	75
Exons	1..82, 1466..1887		
GI Descrip.	(AL118514) DNA polymerase III subunit gamma [Streptomyces coelicolor A3(2)]		

Seq. No.	55251	Seq. ID	OJ000322_06.0424.C30
Gene No.	115787	Strand	+
Start	191	End	2417
Name	OJ000322_06.0424.C30.o1.gs	Method	GENSCAN
Start	191	End	2417
GI	none	Score	.77
Exons	191..583, 1107..1851, 1942..2417		

Seq. No.	55251	Seq. ID	OJ000322_06.0424.C30
Gene No.	115787	Strand	+
Start	191	End	2417
Name	OJ000322_06.0424.C30.o1.np	Method	AAT/NAP
Start	335	End	2396
GI	4585884	Score	532
Exons	335..532, 1293..1851, 1942..2396		
GI Descrip.	(AC005850) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55251	Seq. ID	OJ000322_06.0424.C30
Gene No.	115788	Strand	+
Start	3669	End	5312
Name	OJ000322_06.0424.C30.o2.gs	Method	GENSCAN
Start	3669	End	5312
GI	none	Score	.73
Exons	3669..3778, 3780..3828, 3948..3977, 4129..4245, 4370..4486, 4563..4633, 5045..5312		

Seq. No.	55251	Seq. ID	OJ000322_06.0424.C30
Gene No.	115789	Strand	-
Start	6670	End	6865
Name	OJ000322_06.0424.C30.o2.tw	Method	TBLASTX:Wheat
Start	36	End	361
GI	none	Score	114
Exons	36..107, 37..105, 187..321, 191..361		

Seq. No.	55251	Seq. ID	OJ000322_06.0424.C30
Gene No.	115789	Strand	-
Start	6670	End	6865
Name	OJ000322_06.0424.C30.o2.tm	Method	TBLASTX:Maize
Start	1386	End	1814
GI	none	Score	102
Exons	1386..1547, 1551..1814		

Seq. No.	55251	Seq. ID	OJ000322_06.0424.C30
Gene No.	115789	Strand	-
Start	6670	End	6865
Name	OJ000322_06.0424.C30.o1.tw	Method	TBLASTX:Wheat
Start	1485	End	1854
GI	none	Score	92
Exons	1485..1598, 1497..1568, 1569..1853, 1588..1854, 1592..1852, 1731..1853		

Seq. No.	55251	Seq. ID	OJ000322_06.0424.C30
Gene No.	115789	Strand	-
Start	6670	End	6865
Name	OJ000322_06.0424.C30.o1.ts	Method	TBLASTX:Soybean
Start	1590	End	2017
GI	none	Score	180
Exons	1590..1853, 1607..1645, 1700..1852, 1940..2017, 1941..2015		

Seq. No.	55251	Seq. ID	OJ000322_06.0424.C30
Gene No.	115789	Strand	-
Start	6670	End	6865
Name	OJ000322_06.0424.C30.o1.tm	Method	TBLASTX:Maize
Start	1971	End	2239
GI	none	Score	422
Exons	1971..2228, 1971..2228, 1973..2239, 1996..2229		

Seq. No.	55251	Seq. ID	OJ000322_06.0424.C30
Gene No.	115789	Strand	-
Start	6670	End	6865
Name	OJ000322_06.0424.C30.o3.tm	Method	TBLASTX:Maize
Start	4403	End	4639
GI	none	Score	101
Exons	4403..4486, 4423..4485, 4560..4637, 4562..4639		

Seq. No.	55251	Seq. ID	OJ000322_06.0424.C30
Gene No.	115789	Strand	-
Start	6670	End	6865
Name	OJ000322_06.0424.C30.o2.np	Method	AAT/NAP
Start	6670	End	6864
GI	3953478	Score	234
Exons	6670..6864		
GI Descrip.	(AC002328) F22O2.23 [Arabidopsis thaliana]		

Seq. No.	55251	Seq. ID	OJ000322_06.0424.C30
Gene No.	115789	Strand	-
Start	6670	End	6865
Name	OJ000322_06.0424.C30.o2.ts	Method	TBLASTX:Soybean
Start	6670	End	6865
GI	none	Score	90
Exons	6670..6858, 6722..6865, 6776..6850		

Seq. No.	55252	Seq. ID	OJ000322_06.0424.C31
Gene No.	115790	Strand	-
Start	1	End	1407
Name	OJ000322_06.0424.C31.o1.np	Method	AAT/NAP
Start	1	End	1407
GI	3953478	Score	107
Exons	1..171, 1357..1407		
GI Descrip.	(AC002328) F22O2.23 [Arabidopsis thaliana]		

Seq. No.	55252	Seq. ID	OJ000322_06.0424.C31
Gene No.	115790	Strand	-
Start	1	End	1407
Name	OJ000322_06.0424.C31.o1.gs	Method	GENSCAN
Start	67	End	1290
GI	none	Score	.51
Exons	67..322, 1118..1290		

Seq. No.	55252	Seq. ID	OJ000322_06.0424.C31
Gene No.	115790	Strand	-
Start	1	End	1407
Name	OJ000322_06.0424.C31.o1.tm	Method	TBLASTX:Maize
Start	1061	End	1386
GI	none	Score	126
Exons	1061..1174, 1076..1192, 1078..1191, 1177..1380, 1189..1386		

Seq. No.	55253	Seq. ID	OJ000322_06.0424.C32
Gene No.	115791	Strand	+
Start	367	End	1275
Name	OJ000322_06.0424.C32.o1.tm	Method	TBLASTX:Maize
Start	64	End	1275
GI	none	Score	72
Exons	64..186, 67..183, 71..193, 71..184, 370..489, 379..489, 383..493, 556..708, 558..707, 560..709, 561..710, 789..857, 790..855, 791..862, 1231..1275		

Seq. No.	55253	Seq. ID	OJ000322_06.0424.C32
Gene No.	115791	Strand	+
Start	367	End	1275
Name	OJ000322_06.0424.C32.o1.gs	Method	GENSCAN
Start	367	End	1073
GI	none	Score	.81
Exons	367..488, 563..791, 932..1073		

Seq. No.	55254	Seq. ID	OJ000322_06.0424.C33
Gene No.	115792	Strand	+
Start	6849	End	13544
Name	OJ000322_06.0424.C33.o2.np	Method	AAT/NAP
Start	6849	End	12132

GI	7434429	Score	2293
Exons	6849..6923, 7420..9681, 9733..9964, 10879..10979, 11021..11228, 12025..12132		
GI Descrip.	hypothetical protein F6H11.170 - Arabidopsis thaliana gi|2827715|emb|CAA16688.1| (AL021684) receptor protein kinase - like protein [Arabidopsis thaliana]		

Seq. No.	55254	Seq. ID	OJ000322_06.0424.C33
Gene No.	115792	Strand	+
Start	6849	End	13544
Name	OJ000322_06.0424.C33.o4.gs	Method	GENSCAN
Start	7294	End	13544
GI	none	Score	.67
Exons	7294..9964, 10879..11278, 11342..11459, 11721..12683, 12762..13544		

Seq. No.	55254	Seq. ID	OJ000322_06.0424.C33
Gene No.	115793	Strand	-
Start	13	End	503
Name	OJ000322_06.0424.C33.o1.gp	Method	AAT/GAP
Start	13	End	503
GI	none	Score	958
Exons	13..503		

Seq. No.	55254	Seq. ID	OJ000322_06.0424.C33
Gene No.	115794	Strand	-
Start	2827	End	6429
Name	OJ000322_06.0424.C33.o3.tm	Method	TBLASTX:Maize
Start	57	End	342
GI	none	Score	156
Exons	57..260, 72..230, 94..258, 270..341, 271..342		

Seq. No.	55254	Seq. ID	OJ000322_06.0424.C33
Gene No.	115794	Strand	-
Start	2827	End	6429
Name	OJ000322_06.0424.C33.o1.np	Method	AAT/NAP
Start	1858	End	3562
GI	6907086	Score	1197
Exons	1858..2351, 2575..2739, 2798..3562		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	55254	Seq. ID	OJ000322_06.0424.C33
Gene No.	115794	Strand	-
Start	2827	End	6429
Name	OJ000322_06.0424.C33.o3.gs	Method	GENSCAN
Start	2827	End	6429
GI	none	Score	.74
Exons	2827..3273, 4098..4180, 4295..4430, 4511..4685, 5101..5328, 5480..5621, 5778..5921, 6399..6429		

Seq. No.	55254	Seq. ID	OJ000322_06.0424.C33
Gene No.	115795	Strand	
Start	7546	End	11234
Name	OJ000322_06.0424.C33.o1.tc	Method	TBLASTX:Cress
Start	7546	End	11219
GI	none	Score	107
Exons	7546..7728, 7555..7740, 7564..7821, 7567..7821, 7573..7821,		

7630..7821, 7702..7821, 7756..7821, 7756..7833, 7837..8004,
7837..8010, 7840..7962, 7843..8682, 7930..8004, 8004..8252,
8008..8211, 8014..8469, 8014..8253, 8014..8124, 8026..8613,
8077..8469, 8116..8379, 8128..8304, 8134..8547, 8188..8433,
8215..8376, 8221..8631, 8322..8411, 8326..8469, 8350..8682,
8529..8675, 8530..8691, 8530..8682, 8727..8831, 8761..9057,
8764..9183, 8764..9120, 8764..9120, 8767..8883, 8767..8931,
8770..9126, 8773..9120, 8782..9120, 8785..9024, 8785..9120,
8809..9120, 8821..8955, 8854..9027, 8940..9164, 9010..9120,
9343..9525, 9372..9428, 9508..9633, 9510..9665, 9517..9693,
9733..9918, 9738..9914, 9913..9963, 10848..10973, 10849..10965,
10878..10973, 11121..11219

Seq. No.	55254	Seq. ID	OJ000322_06.0424.C33
Gene No.	115795	Strand	
Start	7546	End	11234
Name	OJ000322_06.0424.C33.o1.tm	Method	TBLASTX:Maize
Start	7549	End	9126
GI	none	Score	192

Exons 7549..7998, 7564..7821, 7567..7821, 7567..7821, 7633..7821,
7843..7989, 7902..7997, 7915..8004, 8008..8406, 8014..8337,
8014..8469, 8014..8124, 8014..8271, 8016..8273, 8035..8244,
8071..8544, 8071..8343, 8140..8613, 8143..8397, 8158..8253,
8209..8682, 8215..8487, 8254..8544, 8320..8469, 8323..8481,
8431..8682, 8529..8675, 8530..8691, 8704..8832, 8719..8832,
8722..8841, 8736..8834, 8761..8994, 8761..9120, 8764..9048,
8788..9126, 9025..9120

Seq. No.	55254	Seq. ID	OJ000322_06.0424.C33
Gene No.	115795	Strand	
Start	7546	End	11234
Name	OJ000322_06.0424.C33.o3.tw	Method	TBLASTX:Wheat
Start	7552	End	9120
GI	none	Score	122

Exons 7552..7728, 7567..7806, 7828..8004, 8026..8304, 8062..8379,
8112..8150, 8143..8454, 8314..8598, 8359..8670, 8764..8889,
8779..9102, 8782..9033, 8854..9120

Seq. No.	55254	Seq. ID	OJ000322_06.0424.C33
Gene No.	115795	Strand	
Start	7546	End	11234
Name	OJ000322_06.0424.C33.o1.ts	Method	TBLASTX:Soybean
Start	7558	End	11234
GI	none	Score	149

Exons 7558..7824, 7567..7746, 7573..7821, 7813..7998, 7837..8010,
7840..8004, 7843..7890, 7852..8010, 7867..8004, 7885..8676,
7915..8184, 7923..8267, 7993..8328, 8008..8379, 8011..8472,
8013..8252, 8014..8397, 8062..8469, 8134..8547, 8158..8691,
8322..8408, 8350..8691, 8463..8675, 8530..8691, 8727..8834,
8761..9177, 8767..9120, 8767..9126, 8770..9126, 8779..9120,
8785..9123, 8827..8946, 8881..9123, 8928..9170, 8971..9096,
9346..9516, 9363..9434, 9516..9668, 9517..9693, 9726..9896,
9733..9906, 9910..9963, 10848..10955, 10849..10971,
10878..10973, 11031..11108, 11118..11234, 11120..11233

Seq. No.	55254	Seq. ID	OJ000322_06.0424.C33
Gene No.	115795	Strand	

Start	7546	End	11234
Name	OJ000322_06.0424.C33.o2.tm	Method	TBLASTX:Maize
Start	9330	End	10952
GI	none	Score	95
Exons	9330..9428, 9364..9513, 9454..9513, 9517..9693, 9517..9636, 9522..9665, 9733..9906, 9741..9893, 9907..9963, 10878..10952		

Seq. No.	55254	Seq. ID	OJ000322_06.0424.C33
Gene No.	115795	Strand	
Start	7546	End	11234
Name	OJ000322_06.0424.C33.o1.tw	Method	TBLASTX:Wheat
Start	9517	End	9870
GI	none	Score	158
Exons	9517..9663, 9517..9636, 9531..9662, 9730..9870, 9732..9845, 9772..9855		

Seq. No.	55254	Seq. ID	OJ000322_06.0424.C33
Gene No.	115796	Strand	
Start	12129	End	12440
Name	OJ000322_06.0424.C33.o5.tm	Method	TBLASTX:Maize
Start	12129	End	12440
GI	none	Score	201
Exons	12129..12440, 12224..12352		

Seq. No.	55254	Seq. ID	OJ000322_06.0424.C33
Gene No.	115797	Strand	
Start	13014	End	13556
Name	OJ000322_06.0424.C33.o2.tw	Method	TBLASTX:Wheat
Start	13014	End	13463
GI	none	Score	114
Exons	13014..13199, 13059..13199, 13209..13301, 13350..13463, 13370..13453		

Seq. No.	55254	Seq. ID	OJ000322_06.0424.C33
Gene No.	115797	Strand	
Start	13014	End	13556
Name	OJ000322_06.0424.C33.o4.tm	Method	TBLASTX:Maize
Start	13038	End	13367
GI	none	Score	195
Exons	13038..13220, 13041..13220, 13054..13221, 13257..13367, 13277..13321		

Seq. No.	55254	Seq. ID	OJ000322_06.0424.C33
Gene No.	115797	Strand	
Start	13014	End	13556
Name	OJ000322_06.0424.C33.o2.tc	Method	TBLASTX:Cress
Start	13260	End	13556
GI	none	Score	203
Exons	13260..13469, 13473..13556		

Seq. No.	55254	Seq. ID	OJ000322_06.0424.C33
Gene No.	115797	Strand	
Start	13014	End	13556
Name	OJ000322_06.0424.C33.o6.tm	Method	TBLASTX:Maize
Start	13368	End	13535
GI	none	Score	185
Exons	13368..13535, 13373..13492		

Seq. No.	55255	Seq. ID	OJ000322_06.0424.C34
Gene No.	115798	Strand	+
Start	1	End	4867
Name	OJ000322_06.0424.C34.o1.np	Method	AAT/NAP
Start	1	End	4867
GI	4512618	Score	1464
Exons	1..37, 1362..1873, 2023..3725, 4795..4867		
GI Descrip.	(AC004793) Strong similarity to gi|3600044 T12H20.12 protease homolog from Arabidopsis thaliana BAC gb|AF080119 and is a member of the reverse transcriptase family PF|00078.		

Seq. No.	55255	Seq. ID	OJ000322_06.0424.C34
Gene No.	115798	Strand	+
Start	1	End	4867
Name	OJ000322_06.0424.C34.o1.gs	Method	GENSCAN
Start	791	End	3732
GI	none	Score	.63
Exons	791..845, 1100..1377, 1449..1824, 1869..2014, 2091..3065, 3077..3121, 3151..3732		

Seq. No.	55255	Seq. ID	OJ000322_06.0424.C34
Gene No.	115799	Strand	+
Start	6254	End	9946
Name	OJ000322_06.0424.C34.o3.gs	Method	GENSCAN
Start	6254	End	9946
GI	none	Score	.53
Exons	6254..6583, 6673..6834, 9368..9485, 9939..9946		

Seq. No.	55255	Seq. ID	OJ000322_06.0424.C34
Gene No.	115799	Strand	+
Start	6254	End	9946
Name	OJ000322_06.0424.C34.o2.gp	Method	AAT/GAP
Start	7534	End	9245
GI	none	Score	871
Exons	7534..7698, 8577..8732, 8825..8936, 9027..9110, 9220..9245		

Seq. No.	55255	Seq. ID	OJ000322_06.0424.C34
Gene No.	115800	Strand	-
Start	3912	End	3997
Name	OJ000322_06.0424.C34.o1.gp	Method	AAT/GAP
Start	3912	End	3997
GI	LIB3477-003-P1-K1-E9	Score	110
Exons	3912..3997		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	55255	Seq. ID	OJ000322_06.0424.C34
Gene No.	115801	Strand	-
Start	4296	End	5226
Name	OJ000322_06.0424.C34.o3.tm	Method	TBLASTX:Maize
Start	1362	End	1658
GI	none	Score	335
Exons	1362..1658, 1364..1654		

Seq. No.	55255	Seq. ID	OJ000322_06.0424.C34

Gene No.	115801	Strand	-
Start	4296	End	5226
Name	OJ000322_06.0424.C34.o3.ts	Method	TBLASTX:Soybean
Start	1362	End	1661
GI	none	Score	211
Exons	1362..1661		

Seq. No.	55255	Seq. ID	OJ000322_06.0424.C34
Gene No.	115801	Strand	-
Start	4296	End	5226
Name	OJ000322_06.0424.C34.o1.tc	Method	TBLASTX:Cress
Start	1365	End	1676
GI	none	Score	262
Exons	1365..1676, 1460..1507, 1535..1672		

Seq. No.	55255	Seq. ID	OJ000322_06.0424.C34
Gene No.	115801	Strand	-
Start	4296	End	5226
Name	OJ000322_06.0424.C34.o2.tw	Method	TBLASTX:Wheat
Start	1365	End	1676
GI	none	Score	303
Exons	1365..1676, 1367..1675		

Seq. No.	55255	Seq. ID	OJ000322_06.0424.C34
Gene No.	115801	Strand	-
Start	4296	End	5226
Name	OJ000322_06.0424.C34.o1.ts	Method	TBLASTX:Soybean
Start	2187	End	2687
GI	5509260	Score	414
Exons	2187..2687, 2510..2665		
GI Descrip.	-		

Seq. No.	55255	Seq. ID	OJ000322_06.0424.C34
Gene No.	115801	Strand	-
Start	4296	End	5226
Name	OJ000322_06.0424.C34.o5.tm	Method	TBLASTX:Maize
Start	2232	End	2477
GI	none	Score	258
Exons	2232..2477, 2232..2468		

Seq. No.	55255	Seq. ID	OJ000322_06.0424.C34
Gene No.	115801	Strand	-
Start	4296	End	5226
Name	OJ000322_06.0424.C34.o2.tc	Method	TBLASTX:Cress
Start	2295	End	2570
GI	none	Score	244
Exons	2295..2570, 2318..2437, 2504..2548		

Seq. No.	55255	Seq. ID	OJ000322_06.0424.C34
Gene No.	115801	Strand	-
Start	4296	End	5226
Name	OJ000322_06.0424.C34.o1.tw	Method	TBLASTX:Wheat
Start	2349	End	2897
GI	none	Score	310
Exons	2349..2696, 2351..2692, 2688..2897		

Seq. No.	55255	Seq. ID	OJ000322_06.0424.C34

Gene No.	115801	Strand	-
Start	4296	End	5226
Name	OJ000322_06.0424.C34.o1.tm	Method	TBLASTX:Maize
Start	2483	End	2930
GI	none	Score	510
Exons	2483..2719, 2484..2930, 2786..2926, 2802..2930		

Seq. No.	55255	Seq. ID	OJ000322_06.0424.C34
Gene No.	115801	Strand	-
Start	4296	End	5226
Name	OJ000322_06.0424.C34.o3.tw	Method	TBLASTX:Wheat
Start	2910	End	3294
GI	none	Score	78
Exons	2910..2978, 2922..2981, 2977..3144, 3035..3145, 3141..3188, 3142..3294, 3234..3293		

Seq. No.	55255	Seq. ID	OJ000322_06.0424.C34
Gene No.	115801	Strand	-
Start	4296	End	5226
Name	OJ000322_06.0424.C34.o2.tm	Method	TBLASTX:Maize
Start	2981	End	3363
GI	none	Score	217
Exons	2981..3145, 2983..3144, 3141..3194, 3142..3363, 3231..3347		

Seq. No.	55255	Seq. ID	OJ000322_06.0424.C34
Gene No.	115801	Strand	-
Start	4296	End	5226
Name	OJ000322_06.0424.C34.o2.ts	Method	TBLASTX:Soybean
Start	3059	End	3654
GI	none	Score	81
Exons	3059..3145, 3064..3144, 3241..3402, 3252..3401, 3478..3654, 3483..3653		

Seq. No.	55255	Seq. ID	OJ000322_06.0424.C34
Gene No.	115801	Strand	-
Start	4296	End	5226
Name	OJ000322_06.0424.C34.o4.tm	Method	TBLASTX:Maize
Start	3460	End	3791
GI	none	Score	296
Exons	3460..3726, 3471..3689, 3711..3791		

Seq. No.	55255	Seq. ID	OJ000322_06.0424.C34
Gene No.	115801	Strand	-
Start	4296	End	5226
Name	OJ000322_06.0424.C34.o4.tw	Method	TBLASTX:Wheat
Start	3520	End	3902
GI	none	Score	189
Exons	3520..3723, 3537..3749, 3846..3902		

Seq. No.	55255	Seq. ID	OJ000322_06.0424.C34
Gene No.	115801	Strand	-
Start	4296	End	5226
Name	OJ000322_06.0424.C34.o2.gs	Method	GENSCAN
Start	4296	End	5226
GI	none	Score	.91
Exons	4296..4305, 5105..5226		

Seq. No.	55255	Seq. ID	OJ000322_06.0424.C34
Gene No.	115802	Strand	
Start	9027	End	9394
Name	OJ000322_06.0424.C34.o6.tm	Method	TBLASTX:Maize
Start	9027	End	9394
GI	none	Score	108
Exons	9027..9110, 9029..9109, 9047..9112, 9209..9283, 9218..9283, 9220..9294, 9368..9394		

Seq. No.	55256	Seq. ID	OJ000322_06.0424.C35
Gene No.	115803	Strand	+
Start	1	End	316
Name	OJ000322_06.0424.C35.o1.gp	Method	AAT/GAP
Start	1	End	316
GI	none	Score	596
Exons	1..316		

Seq. No.	55256	Seq. ID	OJ000322_06.0424.C35
Gene No.	115804	Strand	-
Start	255	End	702
Name	OJ000322_06.0424.C35.o1.tw	Method	TBLASTX:Wheat
Start	250	End	606
GI	none	Score	156
Exons	250..351, 254..355, 255..350, 260..352, 538..606		

Seq. No.	55256	Seq. ID	OJ000322_06.0424.C35
Gene No.	115804	Strand	-
Start	255	End	702
Name	OJ000322_06.0424.C35.o1.gs	Method	GENSCAN
Start	255	End	702
GI	none	Score	.79
Exons	255..349, 538..702		

Seq. No.	55256	Seq. ID	OJ000322_06.0424.C35
Gene No.	115804	Strand	-
Start	255	End	702
Name	OJ000322_06.0424.C35.o1.np	Method	AAT/NAP
Start	272	End	692
GI	7486949	Score	153
Exons	272..349, 538..692		
GI Descrip.	hypothetical protein T13J8.10 - Arabidopsis thaliana gi|4455349|emb|CAB36759.1| (AL035524) putative protein [Arabidopsis thaliana] gi|7269644|emb|CAB79592.1| (AL161572) putative protein [Arabidopsis thaliana]		

Seq. No.	55257	Seq. ID	OJ000302_06.0420.C1
Gene No.	115805	Strand	+
Start	74	End	138
Name	OJ000302_06.0420.C1.o1.gs	Method	GENSCAN
Start	74	End	138
GI	none	Score	.68
Exons	74..138		

Seq. No.	55257	Seq. ID	OJ000302_06.0420.C1
Gene No.	115806	Strand	+
Start	740	End	1171
Name	OJ000302_06.0420.C1.o1.np	Method	AAT/NAP

Start	740	End	1171
GI	7523517	Score	273
Exons	740..1171		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	55258	Seq. ID	OJ000302_06.0420.C2
Gene No.	115807	Strand	+
Start	598	End	951
Name	OJ000302_06.0420.C2.o1.gs	Method	GENSCAN
Start	598	End	951
GI	none	Score	.63
Exons	598..951		

Seq. No.	55259	Seq. ID	OJ000302_06.0420.C3
Gene No.	115808	Strand	+
Start	461	End	1624
Name	OJ000302_06.0420.C3.o1.gs	Method	GENSCAN
Start	461	End	1624
GI	none	Score	.64
Exons	461..638, 1285..1433, 1492..1624		

Seq. No.	55260	Seq. ID	OJ000302_06.0420.C4
Gene No.	115809	Strand	+
Start	2668	End	12757
Name	OJ000302_06.0420.C4.o2.gs	Method	GENSCAN
Start	2668	End	12630
GI	none	Score	.82
Exons	2668..2922, 3074..3202, 3432..3575, 3662..3807, 4576..4762, 4855..4991, 5320..5421, 5451..5568, 5652..5753, 6571..6605, 6761..6887, 6973..7143, 7839..7970, 8039..8148, 8249..8309, 8486..8663, 8754..8959, 9359..9457, 9538..9759, 10294..10389, 10794..10847, 10919..10999, 11122..11292, 11605..11784, 11871..12077, 12383..12453, 12531..12630		

Seq. No.	55260	Seq. ID	OJ000302_06.0420.C4
Gene No.	115809	Strand	+
Start	2668	End	12757
Name	OJ000302_06.0420.C4.o1.np	Method	AAT/NAP
Start	3071	End	12757
GI	4733891	Score	5794
Exons	3071..3202, 3432..3575, 3662..3807, 3917..4073, 4170..4228, 4344..4507, 4617..4762, 4855..4991, 5076..5222, 5320..5421, 5511..5568, 5652..5753, 6571..6605, 6761..6887, 6973..7143, 7839..7970, 8039..8148, 8249..8309, 8486..8663, 8754..8959, 9155..9274, 9359..9457, 9538..9759, 10294..10427, 10575..10694, 10794..10847, 10919..10999, 11122..11292, 11632..11784, 11871..12077, 12167..12306, 12383..12453, 12531..12630, 12701..12757		
GI Descrip.	(AF104924) unconventional myosin heavy chain [Zea mays]		

Seq. No.	55260	Seq. ID	OJ000302_06.0420.C4
Gene No.	115809	Strand	+
Start	2668	End	12757
Name	OJ000302_06.0420.C4.o1.gp	Method	AAT/GAP
Start	8473	End	9188
GI	2310300	Score	778
Exons	8473..8663, 8754..8959, 9155..9188		

GI Descrip.	4733891/gb|AAD17931.2| 5.0e-68 (AF104924) unconventional myosin heavy chain [Zea mays]		
Seq. No.	55260	Seq. ID	OJ000302_06.0420.C4
Gene No.	115809	Strand	+
Start	2668	End	12757
Name	OJ000302_06.0420.C4.o2.gp	Method	AAT/GAP
Start	9665	End	10847
GI	uC-osflcyp124g12b1	Score	710
Exons	9665..9759, 10294..10432, 10580..10694, 10794..10847		
GI Descrip.	'4733891/gb|AAD17931.2| 6.0e-63 (AF104924) unconventional myosin heavy chain [Zea mays]'		
Seq. No.	55260	Seq. ID	OJ000302_06.0420.C4
Gene No.	115809	Strand	+
Start	2668	End	12757
Name	OJ000302_06.0420.C4.o3.gp	Method	AAT/GAP
Start	12159	End	12746
GI	428045	Score	643
Exons	12159..12306, 12383..12453, 12531..12630, 12701..12746		
GI Descrip.	4733891/gb|AAD17931.2| 6.0e-63 (AF104924) unconventional myosin heavy chain [Zea mays]		
Seq. No.	55260	Seq. ID	OJ000302_06.0420.C4
Gene No.	115810	Strand	-
Start	75	End	1351
Name	OJ000302_06.0420.C4.o1.gs	Method	GENSCAN
Start	75	End	1351
GI	none	Score	.89
Exons	75..243, 771..964, 1100..1351		
Seq. No.	55260	Seq. ID	OJ000302_06.0420.C4
Gene No.	115811	Strand	
Start	3056	End	12768
Name	OJ000302_06.0420.C4.o1.tc	Method	TBLASTX:Cress
Start	3056	End	12760
GI	none	Score	147
Exons	3056..3205, 3092..3199, 3455..3574, 3456..3575, 3658..3813, 3662..3808, 3683..3817, 3906..4013, 3908..4072, 3909..4076, 4167..4208, 4169..4228, 4341..4505, 4342..4503, 4625..4762, 4628..4771, 4651..4770, 4842..4994, 4852..4989, 5073..5222, 5077..5223, 5300..5419, 5300..5419, 5302..5427, 5506..5568, 5508..5564, 5649..5753, 5649..5756, 6755..6880, 6759..6887, 6761..6892, 6762..6893, 6961..7164, 6970..7035, 6993..7157, 7811..7969, 7857..7970, 8038..8145, 8039..8146, 8039..8146, 8235..8312, 8235..8321, 8480..8665, 8485..8664, 8749..8946, 8753..8959, 9153..9275, 9155..9280, 9359..9457, 9380..9457, 9509..9601, 9532..9705, 9537..9710, 9685..9759, 9696..9758, 10377..10433, 10577..10678, 10578..10685, 10969..11001, 11118..11288, 11119..11304, 11121..11315, 11635..11766, 11868..11933, 11882..11932, 11927..12079, 11928..12080, 12211..12309, 12238..12309, 12368..12451, 12382..12471, 12528..12629, 12559..12630, 12698..12760, 12706..12759		
Seq. No.	55260	Seq. ID	OJ000302_06.0420.C4
Gene No.	115811	Strand	
Start	3056	End	12768

Name	OJ000302_06.0420.C4.o8.tm	Method	TBLASTX:Maize
Start	4176	End	4493
GI	none	Score	192
Exons	4176..4220, 4347..4493, 4357..4491		

Seq. No.	55260	Seq. ID	OJ000302_06.0420.C4
Gene No.	115811	Strand	
Start	3056	End	12768
Name	OJ000302_06.0420.C4.o4.tm	Method	TBLASTX:Maize
Start	4876	End	5223
GI	none	Score	142
Exons	4876..4989, 4878..4997, 5077..5223, 5163..5222		

Seq. No.	55260	Seq. ID	OJ000302_06.0420.C4
Gene No.	115811	Strand	
Start	3056	End	12768
Name	OJ000302_06.0420.C4.o5.ts	Method	TBLASTX:Soybean
Start	5077	End	5744
GI	none	Score	103
Exons	5077..5223, 5225..5260, 5375..5425, 5505..5564, 5506..5568, 5649..5744		

Seq. No.	55260	Seq. ID	OJ000302_06.0420.C4
Gene No.	115811	Strand	
Start	3056	End	12768
Name	OJ000302_06.0420.C4.o6.tm	Method	TBLASTX:Maize
Start	5375	End	5753
GI	none	Score	57
Exons	5375..5419, 5505..5564, 5506..5568, 5649..5753		

Seq. No.	55260	Seq. ID	OJ000302_06.0420.C4
Gene No.	115811	Strand	
Start	3056	End	12768
Name	OJ000302_06.0420.C4.o3.tm	Method	TBLASTX:Maize
Start	6760	End	7940
GI	none	Score	188
Exons	6760..6882, 6761..6889, 6762..6890, 6952..7164, 6970..7110, 6972..7154, 7837..7938, 7841..7939, 7857..7940		

Seq. No.	55260	Seq. ID	OJ000302_06.0420.C4
Gene No.	115811	Strand	
Start	3056	End	12768
Name	OJ000302_06.0420.C4.o4.ts	Method	TBLASTX:Soybean
Start	6798	End	7118
GI	none	Score	124
Exons	6798..6893, 6803..6892, 6961..7014, 6972..7013, 7015..7116, 7017..7118		

Seq. No.	55260	Seq. ID	OJ000302_06.0420.C4
Gene No.	115811	Strand	
Start	3056	End	12768
Name	OJ000302_06.0420.C4.o3.ts	Method	TBLASTX:Soybean
Start	7841	End	8140
GI	none	Score	163
Exons	7841..7969, 7857..7970, 8038..8133, 8039..8140, 8042..8134		

Seq. No.	55260	Seq. ID	OJ000302_06.0420.C4

Gene No.	115811	Strand	
Start	3056	End	12768
Name	OJ000302_06.0420.C4.o1.tm	Method	TBLASTX:Maize
Start	8040	End	9401
GI	none	Score	181
Exons	8040..8114, 8041..8154, 8042..8146, 8042..8182, 8234..8308, 8235..8312, 8480..8668, 8484..8537, 8485..8676, 8577..8687, 8752..8958, 8753..8959, 8756..8959, 8762..8923, 8810..8959, 9148..9216, 9152..9226, 9153..9275, 9155..9280, 9156..9233, 9157..9282, 9354..9401, 9359..9400, 9366..9401		

Seq. No.	55260	Seq. ID	OJ000302_06.0420.C4
Gene No.	115811	Strand	
Start	3056	End	12768
Name	OJ000302_06.0420.C4.o1.ts	Method	TBLASTX:Soybean
Start	8762	End	9719
GI	none	Score	93
Exons	8762..8923, 8858..8959, 9158..9280, 9359..9457, 9529..9711, 9537..9599, 9616..9693, 9675..9719		

Seq. No.	55260	Seq. ID	OJ000302_06.0420.C4
Gene No.	115811	Strand	
Start	3056	End	12768
Name	OJ000302_06.0420.C4.o5.tm	Method	TBLASTX:Maize
Start	9601	End	10955
GI	none	Score	168
Exons	9601..9759, 9610..9753, 10293..10373, 10361..10456, 10374..10433, 10378..10434, 10567..10629, 10567..10692, 10568..10696, 10575..10697, 10786..10845, 10793..10852, 10799..10846, 10908..10955		

Seq. No.	55260	Seq. ID	OJ000302_06.0420.C4
Gene No.	115811	Strand	
Start	3056	End	12768
Name	OJ000302_06.0420.C4.o7.tm	Method	TBLASTX:Maize
Start	11097	End	11288
GI	none	Score	194
Exons	11097..11288, 11122..11286, 11145..11288		

Seq. No.	55260	Seq. ID	OJ000302_06.0420.C4
Gene No.	115811	Strand	
Start	3056	End	12768
Name	OJ000302_06.0420.C4.o2.tm	Method	TBLASTX:Maize
Start	11745	End	12768
GI	none	Score	61
Exons	11745..11783, 11746..11784, 11756..11785, 11869..12009, 11870..12010, 11871..12008, 12026..12076, 12039..12077, 12161..12199, 12166..12198, 12194..12307, 12201..12308, 12235..12309, 12325..12471, 12347..12451, 12519..12626, 12521..12628, 12527..12625, 12528..12629, 12559..12630, 12698..12760, 12700..12768, 12700..12759		

Seq. No.	55260	Seq. ID	OJ000302_06.0420.C4
Gene No.	115811	Strand	
Start	3056	End	12768
Name	OJ000302_06.0420.C4.o1.tw	Method	TBLASTX:Wheat
Start	11892	End	12427

GI	none	Score	185
Exons	11892..12077, 11950..12078, 11951..12079, 11987..12079, 12241..12309, 12365..12427		
Seq. No.	55260	Seq. ID	OJ000302_06.0420.C4
Gene No.	115811	Strand	
Start	3056	End	12768
Name	OJ000302_06.0420.C4.o2.ts	Method	TBLASTX:Soybean
Start	11970	End	12760
GI	none	Score	179
Exons	11970..12077, 11974..12063, 11975..12064, 11984..12079, 12213..12305, 12238..12306, 12365..12451, 12370..12453, 12519..12614, 12528..12629, 12559..12630, 12682..12759, 12698..12760, 12698..12760		
Seq. No.	55261	Seq. ID	OJ000302_06.0420.C5
Gene No.	115812	Strand	+
Start	1	End	228
Name	OJ000302_06.0420.C5.o1.np	Method	AAT/NAP
Start	1	End	228
GI	4733891	Score	171
Exons	1..228		
GI Descrip.	(AF104924) unconventional myosin heavy chain [Zea mays]		
Seq. No.	55261	Seq. ID	OJ000302_06.0420.C5
Gene No.	115813	Strand	+
Start	211	End	491
Name	OJ000302_06.0420.C5.o1.gp	Method	AAT/GAP
Start	211	End	491
GI	LIB3433-050-P1-K1-A9	Score	504
Exons	211..491		
GI Descrip.	'4733891/gb|AAD17931.2| 5.0e-68 (AF104924) unconventional myosin heavy chain [Zea mays]'		
Seq. No.	55261	Seq. ID	OJ000302_06.0420.C5
Gene No.	115814	Strand	+
Start	1012	End	2049
Name	OJ000302_06.0420.C5.o1.tm	Method	TBLASTX:Maize
Start	99	End	662
GI	none	Score	156
Exons	99..233, 99..230, 100..234, 294..320, 295..321, 299..319, 488..538, 551..580, 554..580, 597..662, 610..657		
Seq. No.	55261	Seq. ID	OJ000302_06.0420.C5
Gene No.	115814	Strand	+
Start	1012	End	2049
Name	OJ000302_06.0420.C5.o1.gs	Method	GENSCAN
Start	1012	End	2049
GI	none	Score	.59
Exons	1012..1130, 1256..1380, 1846..1983, 2021..2049		
Seq. No.	55262	Seq. ID	OJ000302_06.0420.C6
Gene No.	115815	Strand	+
Start	722	End	3865
Name	OJ000302_06.0420.C6.o1.np	Method	AAT/NAP
Start	722	End	3865
GI	6862923	Score	301

Exons	722..741, 2260..2843, 3769..3865		
GI Descrip.	(AC018907) unknown protein [Arabidopsis thaliana]		
Seq. No.	55262	Seq. ID	OJ000302_06.0420.C6
Gene No.	115815	Strand	+
Start	722	End	3865
Name	OJ000302_06.0420.C6.o1.gs	Method	GENSCAN
Start	2136	End	2847
GI	none	Score	.51
Exons	2136..2440, 2529..2847		
Seq. No.	55262	Seq. ID	OJ000302_06.0420.C6
Gene No.	115816	Strand	+
Start	4742	End	6578
Name	OJ000302_06.0420.C6.o2.gs	Method	GENSCAN
Start	4742	End	6578
GI	none	Score	.74
Exons	4742..4756, 5944..6040, 6083..6343, 6355..6578		
Seq. No.	55262	Seq. ID	OJ000302_06.0420.C6
Gene No.	115817	Strand	-
Start	3907	End	11984
Name	OJ000302_06.0420.C6.o1.ts	Method	TBLASTX:Soybean
Start	2256	End	2808
GI	none	Score	194
Exons	2256..2528, 2327..2530, 2567..2683, 2572..2673, 2679..2780, 2683..2808		
Seq. No.	55262	Seq. ID	OJ000302_06.0420.C6
Gene No.	115817	Strand	-
Start	3907	End	11984
Name	OJ000302_06.0420.C6.o3.tm	Method	TBLASTX:Maize
Start	2256	End	2810
GI	none	Score	209
Exons	2256..2528, 2333..2530, 2567..2683, 2572..2673, 2679..2810, 2683..2808		
Seq. No.	55262	Seq. ID	OJ000302_06.0420.C6
Gene No.	115817	Strand	-
Start	3907	End	11984
Name	OJ000302_06.0420.C6.o3.tc	Method	TBLASTX:Cress
Start	2259	End	2534
GI	none	Score	194
Exons	2259..2534		
Seq. No.	55262	Seq. ID	OJ000302_06.0420.C6
Gene No.	115817	Strand	-
Start	3907	End	11984
Name	OJ000302_06.0420.C6.o1.gp	Method	AAT/GAP
Start	3907	End	8098
GI	3862_1.R1084	Score	1238
Exons	3907..4173, 7701..8098		
GI Descrip.	'3258571 4.0e-22 (U89959) Hypothetical protein [Arabidopsis thaliana]'		
Seq. No.	55262	Seq. ID	OJ000302_06.0420.C6
Gene No.	115817	Strand	-

Start	3907	End	11984
Name	OJ000302_06.0420.C6.o3.gs	Method	GENSCAN
Start	7129	End	11912
GI	none	Score	.76
Exons	7129..7172, 7701..7822, 7902..8109, 8201..8311, 8723..8935, 9027..9096, 9176..9821, 9898..10127, 10212..10392, 10523..10914, 11205..11397, 11482..11639, 11757..11912		

Seq. No.	55262	Seq. ID	OJ000302_06.0420.C6
Gene No.	115817	Strand	-
Start	3907	End	11984
Name	OJ000302_06.0420.C6.o2.np	Method	AAT/NAP
Start	7715	End	8008
GI	2760334	Score	347
Exons	7715..8008		
GI Descrip.	(AC002130) F1N21.5 [Arabidopsis thaliana]		

Seq. No.	55262	Seq. ID	OJ000302_06.0420.C6
Gene No.	115817	Strand	-
Start	3907	End	11984
Name	OJ000302_06.0420.C6.o1.tw	Method	TBLASTX:Wheat
Start	7748	End	8008
GI	none	Score	318
Exons	7748..7987, 7767..7991, 7970..8008		

Seq. No.	55262	Seq. ID	OJ000302_06.0420.C6
Gene No.	115817	Strand	-
Start	3907	End	11984
Name	OJ000302_06.0420.C6.o2.tm	Method	TBLASTX:Maize
Start	7748	End	8008
GI	none	Score	294
Exons	7748..7987, 7767..7988, 7970..8008		

Seq. No.	55262	Seq. ID	OJ000302_06.0420.C6
Gene No.	115817	Strand	-
Start	3907	End	11984
Name	OJ000302_06.0420.C6.o2.tc	Method	TBLASTX:Cress
Start	7763	End	8008
GI	none	Score	152
Exons	7763..7987, 7767..7991, 7976..8008		

Seq. No.	55262	Seq. ID	OJ000302_06.0420.C6
Gene No.	115817	Strand	-
Start	3907	End	11984
Name	OJ000302_06.0420.C6.o2.ts	Method	TBLASTX:Soybean
Start	7763	End	8008
GI	none	Score	156
Exons	7763..7987, 7767..7991, 7976..8008		

Seq. No.	55262	Seq. ID	OJ000302_06.0420.C6
Gene No.	115817	Strand	-
Start	3907	End	11984
Name	OJ000302_06.0420.C6.o4.tm	Method	TBLASTX:Maize
Start	9169	End	9289
GI	none	Score	87
Exons	9169..9270, 9173..9289, 9177..9287		

Seq. No.	55262	Seq. ID	OJ000302_06.0420.C6
Gene No.	115817	Strand	-
Start	3907	End	11984
Name	OJ000302_06.0420.C6.o3.np	Method	AAT/NAP
Start	9176	End	11984
GI	7487078	Score	1455
Exons	9176..9821, 9898..10127, 10212..10392, 10523..10914, 11205..11409, 11494..11639, 11757..11984		
GI Descrip.	hypothetical protein T16I18.30 - Arabidopsis thaliana gi|7270229|emb|CAB79999.1| (AL161582) putative protein [Arabidopsis thaliana]		

Seq. No.	55262	Seq. ID	OJ000302_06.0420.C6
Gene No.	115817	Strand	-
Start	3907	End	11984
Name	OJ000302_06.0420.C6.o1.tm	Method	TBLASTX:Maize
Start	9303	End	10058
GI	none	Score	172
Exons	9303..9455, 9308..9511, 9312..9461, 9458..9823, 9459..9587, 9459..9824, 9461..9820, 9508..9831, 9645..9824, 9894..10052, 9895..10029, 9900..10058, 9940..10053		

Seq. No.	55262	Seq. ID	OJ000302_06.0420.C6
Gene No.	115817	Strand	-
Start	3907	End	11984
Name	OJ000302_06.0420.C6.o3.ts	Method	TBLASTX:Soybean
Start	9350	End	9757
GI	none	Score	91
Exons	9350..9592, 9351..9569, 9581..9757, 9645..9749		

Seq. No.	55262	Seq. ID	OJ000302_06.0420.C6
Gene No.	115817	Strand	-
Start	3907	End	11984
Name	OJ000302_06.0420.C6.o4.ts	Method	TBLASTX:Soybean
Start	9981	End	10623
GI	none	Score	48
Exons	9981..10109, 10057..10128, 10212..10394, 10225..10395, 10517..10600, 10522..10623		

Seq. No.	55262	Seq. ID	OJ000302_06.0420.C6
Gene No.	115817	Strand	-
Start	3907	End	11984
Name	OJ000302_06.0420.C6.o1.tc	Method	TBLASTX:Cress
Start	10044	End	11271
GI	none	Score	67
Exons	10044..10109, 10187..10393, 10212..10394, 10269..10394, 10300..10395, 10517..10726, 10518..10727, 10522..10737, 10522..10746, 10523..10747, 11200..11271, 11202..11270		

Seq. No.	55263	Seq. ID	OJ000302_06.0420.C7
Gene No.	115818	Strand	-
Start	1	End	1504
Name	OJ000302_06.0420.C7.o1.np	Method	AAT/NAP
Start	1	End	1504
GI	7487078	Score	655
Exons	1..161, 353..545, 651..882, 1070..1504		
GI Descrip.	hypothetical protein T16I18.30 - Arabidopsis thaliana		

gi|7270229|emb|CAB79999.1| (AL161582) putative protein [Arabidopsis thaliana]

Seq. No.	55263	Seq. ID	OJ000302_06.0420.C7
Gene No.	115818	Strand	-
Start	1	End	1504
Name	OJ000302_06.0420.C7.o1.gs	Method	GENSCAN
Start	353	End	1421
GI	none	Score	.69
Exons	353..545, 651..779, 788..849, 1070..1183, 1274..1421		

Seq. No.	55264	Seq. ID	OJ000302_06.0420.C8
Gene No.	115819	Strand	-
Start	682	End	8648
Name	OJ000302_06.0420.C8.o1.gs	Method	GENSCAN
Start	682	End	8304
GI	none	Score	.85
Exons	682..756, 1764..1865, 3398..3556, 4435..4516, 4641..4711, 4792..4891, 4977..5183, 5340..5362, 5730..5804, 6650..6742, 7234..7338, 7801..7871, 8142..8304		

Seq. No.	55264	Seq. ID	OJ000302_06.0420.C8
Gene No.	115819	Strand	-
Start	682	End	8648
Name	OJ000302_06.0420.C8.o1.np	Method	AAT/NAP
Start	682	End	8648
GI	6094553	Score	1812
Exons	682..756, 845..907, 1764..1846, 2659..2701, 3398..3556, 4435..4511, 4648..4711, 4792..4891, 4977..5183, 5277..5362, 5730..5804, 6650..6742, 7234..7338, 7801..7871, 8142..8299, 8628..8648		
GI Descrip.	(AC010676) unknown protein [Arabidopsis thaliana]		

Seq. No.	55264	Seq. ID	OJ000302_06.0420.C8
Gene No.	115819	Strand	-
Start	682	End	8648
Name	OJ000302_06.0420.C8.o1.ts	Method	TBLASTX:Soybean
Start	5310	End	8202
GI	none	Score	74
Exons	5310..5399, 5312..5362, 5709..5807, 5728..5805, 6645..6743, 6647..6745, 7231..7341, 7231..7338, 7232..7345, 7233..7340, 7798..7872, 7799..7873, 8137..8202, 8137..8199		

Seq. No.	55265	Seq. ID	OJ000302_06.0420.C12
Gene No.	115820	Strand	
Start	972	End	1275
Name	OJ000302_06.0420.C12.o1.tm	Method	TBLASTX:Maize
Start	972	End	1275
GI	none	Score	282
Exons	972..1274, 1020..1274, 1054..1275		

Seq. No.	55266	Seq. ID	OJ000302_06.0420.C13
Gene No.	115821	Strand	+
Start	140	End	863
Name	OJ000302_06.0420.C13.o1.gs	Method	GENSCAN
Start	140	End	863
GI	none	Score	.79

Exons	140..284, 372..498, 558..609, 855..863		
Seq. No.	55267	Seq. ID	OJ000302_06.0420.C14
Gene No.	115822	Strand	-
Start	469	End	739
Name	OJ000302_06.0420.C14.o1.gs	Method	GENSCAN
Start	469	End	739
GI	none	Score	.65
Exons	469..574, 720..739		
Seq. No.	55268	Seq. ID	OJ000302_06.0420.C15
Gene No.	115823	Strand	+
Start	1168	End	1888
Name	OJ000302_06.0420.C15.o1.gs	Method	GENSCAN
Start	1168	End	1888
GI	none	Score	.57
Exons	1168..1226, 1630..1888		
Seq. No.	55268	Seq. ID	OJ000302_06.0420.C15
Gene No.	115824	Strand	+
Start	9124	End	9817
Name	OJ000302_06.0420.C15.o3.gs	Method	GENSCAN
Start	9124	End	9817
GI	none	Score	.62
Exons	9124..9246, 9680..9817		
Seq. No.	55268	Seq. ID	OJ000302_06.0420.C15
Gene No.	115825	Strand	+
Start	15245	End	20999
Name	OJ000302_06.0420.C15.o1.np	Method	AAT/NAP
Start	15245	End	20999
GI	7488141	Score	1406
Exons	15245..15436, 15647..15680, 15779..15995, 19006..20423, 20948..20999		
GI Descrip.	probable peptide transport protein T17F15.170 - Arabidopsis thaliana gi|4678332|emb|CAB41143.1| (AL049658) putative peptide transporter [Arabidopsis thaliana]		
Seq. No.	55268	Seq. ID	OJ000302_06.0420.C15
Gene No.	115825	Strand	+
Start	15245	End	20999
Name	OJ000302_06.0420.C15.o3.gp	Method	AAT/GAP
Start	15456	End	19062
GI	25730_1.R1084	Score	943
Exons	15456..15680, 15779..15995, 19006..19062		
GI Descrip.	'4678332/emb|CAB41143.1| 3.0e-21 (AL049658) putative peptide transporter [Arabidopsis thaliana]'		
Seq. No.	55268	Seq. ID	OJ000302_06.0420.C15
Gene No.	115825	Strand	+
Start	15245	End	20999
Name	OJ000302_06.0420.C15.o6.gs	Method	GENSCAN
Start	19009	End	20406
GI	none	Score	.61
Exons	19009..20406		
Seq. No.	55268	Seq. ID	OJ000302_06.0420.C15

Gene No.	115825	Strand	+
Start	15245	End	20999
Name	OJ000302_06.0420.C15.o4.gp	Method	AAT/GAP
Start	19671	End	20723
GI	16142_1.R1084	Score	2069
Exons	19671..20723		
GI Descrip.	'4678332/emb|CAB41143.1| 5.0e-63 (AL049658) putative peptide transporter [Arabidopsis thaliana]'		

Seq. No.	55268	Seq. ID	OJ000302_06.0420.C15
Gene No.	115826	Strand	-
Start	1657	End	2329
Name	OJ000302_06.0420.C15.o1.gp	Method	AAT/GAP
Start	1657	End	2329
GI	none	Score	1334
Exons	1657..2329		

Seq. No.	55268	Seq. ID	OJ000302_06.0420.C15
Gene No.	115827	Strand	-
Start	4549	End	6708
Name	OJ000302_06.0420.C15.o2.gs	Method	GENSCAN
Start	4549	End	6708
GI	none	Score	.53
Exons	4549..4630, 5210..5420, 5897..6046, 6136..6245, 6283..6603, 6692..6708		

Seq. No.	55268	Seq. ID	OJ000302_06.0420.C15
Gene No.	115828	Strand	-
Start	21399	End	25721
Name	OJ000302_06.0420.C15.o3.tm	Method	TBLASTX:Maize
Start	1646	End	2047
GI	none	Score	213
Exons	1646..1879, 1709..1882, 1726..1884, 1735..1893, 1905..1949, 1913..1948, 1983..2000, 2014..2046, 2015..2047		

Seq. No.	55268	Seq. ID	OJ000302_06.0420.C15
Gene No.	115828	Strand	-
Start	21399	End	25721
Name	OJ000302_06.0420.C15.o1.tm	Method	TBLASTX:Maize
Start	15584	End	20397
GI	none	Score	72
Exons	15584..15628, 15632..15682, 15634..15693, 15643..15702, 15789..15959, 15791..15925, 19005..19223, 19006..19791, 19263..19787, 19791..19850, 19791..19862, 19792..20397, 19846..19914, 19944..20390		

Seq. No.	55268	Seq. ID	OJ000302_06.0420.C15
Gene No.	115828	Strand	-
Start	21399	End	25721
Name	OJ000302_06.0420.C15.o1.tc	Method	TBLASTX:Cress
Start	15620	End	20400
GI	none	Score	45
Exons	15620..15682, 15792..15959, 19066..19485, 19323..19490, 19518..19595, 19534..19587, 19624..19809, 19632..19712, 19789..20007, 20035..20244, 20251..20400		

Seq. No.	55268	Seq. ID	OJ000302_06.0420.C15

Gene No.	115828	Strand	-
Start	21399	End	25721
Name	OJ000302_06.0420.C15.o1.ts	Method	TBLASTX:Soybean
Start	15792	End	20388
GI	none	Score	92
Exons	15792..15959, 19006..19194, 19050..19193, 19228..19491, 19281..19490, 19534..19587, 19633..20007, 20059..20277, 20281..20388		

Seq. No.	55268	Seq. ID	OJ000302_06.0420.C15
Gene No.	115828	Strand	-
Start	21399	End	25721
Name	OJ000302_06.0420.C15.o1.tw	Method	TBLASTX:Wheat
Start	20071	End	20397
GI	none	Score	159
Exons	20071..20265, 20076..20264, 20251..20397		

Seq. No.	55268	Seq. ID	OJ000302_06.0420.C15
Gene No.	115828	Strand	-
Start	21399	End	25721
Name	OJ000302_06.0420.C15.o2.tm	Method	TBLASTX:Maize
Start	21110	End	21643
GI	none	Score	40
Exons	21110..21193, 21132..21194, 21192..21290, 21261..21290, 21329..21376, 21357..21380, 21357..21380, 21390..21497, 21393..21497, 21394..21534, 21534..21641, 21566..21640, 21568..21642, 21571..21642, 21572..21643		

Seq. No.	55268	Seq. ID	OJ000302_06.0420.C15
Gene No.	115828	Strand	-
Start	21399	End	25721
Name	OJ000302_06.0420.C15.o7.gs	Method	GENSCAN
Start	21399	End	25721
GI	none	Score	.88
Exons	21399..21494, 22336..22483, 22563..22708, 23244..23493, 23705..23753, 25009..25130, 25369..25721		

Seq. No.	55268	Seq. ID	OJ000302_06.0420.C15
Gene No.	115828	Strand	-
Start	21399	End	25721
Name	OJ000302_06.0420.C15.o2.np	Method	AAT/NAP
Start	21402	End	25694
GI	2213589	Score	443
Exons	21402..21494, 22336..22483, 22563..22708, 23244..23436, 23534..23753, 24997..25154, 25369..25694		
GI Descrip.	(AC000348) T7N9.9 [Arabidopsis thaliana]		

Seq. No.	55269	Seq. ID	OJ000302_06.0420.C16
Gene No.	115829	Strand	-
Start	1781	End	4963
Name	OJ000302_06.0420.C16.o1.gs	Method	GENSCAN
Start	1781	End	4963
GI	none	Score	.4
Exons	1781..1858, 1917..1999, 2096..2192, 2688..2811, 3053..3090, 3955..3987, 4342..4427, 4541..4714, 4745..4927, 4933..4963		

Seq. No.	55269	Seq. ID	OJ000302_06.0420.C16

Gene No.	115829	Strand	-
Start	1781	End	4963
Name	OJ000302_06.0420.C16.o1.tm	Method	TBLASTX:Maize
Start	2670	End	3093
GI	none	Score	48
Exons	2670..2705, 2703..2753, 2704..2757, 2754..2810, 2754..2819, 2789..2944, 2792..2941, 2827..2955, 2941..2970, 2942..2971, 2974..2988, 2987..3058, 2988..3062, 3058..3093, 3059..3091		

Seq. No.	55270	Seq. ID	OJ000302_06.0420.C17
Gene No.	115830	Strand	+
Start	80	End	184
Name	OJ000302_06.0420.C17.o1.np	Method	AAT/NAP
Start	80	End	184
GI	6630699	Score	77
Exons	80..184		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	55270	Seq. ID	OJ000302_06.0420.C17
Gene No.	115831	Strand	+
Start	312	End	726
Name	OJ000302_06.0420.C17.o2.np	Method	AAT/NAP
Start	312	End	726
GI	6539570	Score	100
Exons	312..515, 662..726		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	55271	Seq. ID	OJ000302_06.0420.C19
Gene No.	115832	Strand	-
Start	239	End	2923
Name	OJ000302_06.0420.C19.o1.gs	Method	GENSCAN
Start	239	End	2923
GI	none	Score	.61
Exons	239..360, 789..813, 1016..1081, 2084..2143, 2551..2923		

Seq. No.	55271	Seq. ID	OJ000302_06.0420.C19
Gene No.	115832	Strand	-
Start	239	End	2923
Name	OJ000302_06.0420.C19.o1.np	Method	AAT/NAP
Start	777	End	2580
GI	6323442	Score	77
Exons	777..872, 1035..1081, 2084..2143, 2551..2580		
GI Descrip.	Homologous to S. pombe asp1+; Vip1p gi|1363755|pir||S59376 hypothetical protein YLR410w - yeast (Saccharomyces cerevisiae) gi|632676|gb|AAB67497.1| (U20162) Ylr410wp [Saccharomyces cerevisiae]		

Seq. No.	55272	Seq. ID	OJ000302_06.0420.C20
Gene No.	115833	Strand	+
Start	517	End	599
Name	OJ000302_06.0420.C20.o1.gp	Method	AAT/GAP
Start	517	End	599
GI	LIB3477-003-P1-K1-E9	Score	86
Exons	517..599		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY		

S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'

Seq. No.	55272	Seq. ID	OJ000302_06.0420.C20
Gene No.	115834	Strand	+
Start	13451	End	13735
Name	OJ000302_06.0420.C20.o2.gp	Method	AAT/GAP
Start	13451	End	13735
GI	uC-osroM202017c04a1	Score	570
Exons	13451..13735		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 3.0e-94 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	55272	Seq. ID	OJ000302_06.0420.C20
Gene No.	115835	Strand	-
Start	100	End	1346
Name	OJ000302_06.0420.C20.o1.np	Method	AAT/NAP
Start	100	End	1346
GI	7340909	Score	124
Exons	100..335, 385..517, 564..694, 1255..1346		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	55272	Seq. ID	OJ000302_06.0420.C20
Gene No.	115836	Strand	-
Start	4292	End	4662
Name	OJ000302_06.0420.C20.o2.np	Method	AAT/NAP
Start	4292	End	4662
GI	6069646	Score	350
Exons	4292..4662		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	55272	Seq. ID	OJ000302_06.0420.C20
Gene No.	115837	Strand	-
Start	11773	End	12463
Name	OJ000302_06.0420.C20.o2.gs	Method	GENSCAN
Start	11773	End	12463
GI	none	Score	1
Exons	11773..12220, 12252..12463		

Seq. No.	55272	Seq. ID	OJ000302_06.0420.C20
Gene No.	115838	Strand	-
Start	13749	End	18836
Name	OJ000302_06.0420.C20.o2.tw	Method	TBLASTX:Wheat
Start	11904	End	18214
GI	none	Score	58
Exons	11904..12005, 12116..12184, 17937..17999, 17939..18193, 18071..18214		

Seq. No.	55272	Seq. ID	OJ000302_06.0420.C20
Gene No.	115838	Strand	-
Start	13749	End	18836
Name	OJ000302_06.0420.C20.o3.np	Method	AAT/NAP
Start	13729	End	18547

GI	6730697	Score	1778
Exons	13729..13895, 14172..14402, 14472..14639, 14727..15139, 17881..18547		
GI Descrip.	(AC011809) calcium-dependent protein kinase 1 [Arabidopsis thaliana]		

Seq. No.	55272	Seq. ID	OJ000302_06.0420.C20
Gene No.	115838	Strand	-
Start	13749	End	18836
Name	OJ000302_06.0420.C20.o3.gs	Method	GENSCAN
Start	13749	End	15101
GI	none	Score	.91
Exons	13749..13895, 14172..15101		

Seq. No.	55272	Seq. ID	OJ000302_06.0420.C20
Gene No.	115838	Strand	-
Start	13749	End	18836
Name	OJ000302_06.0420.C20.o1.ts	Method	TBLASTX:Soybean
Start	13758	End	17935
GI	none	Score	132
Exons	13758..13898, 13768..13896, 14172..14210, 14268..14432, 14293..14400, 14511..14654, 14512..14640, 14713..15141, 14724..15134, 17876..17935		

Seq. No.	55272	Seq. ID	OJ000302_06.0420.C20
Gene No.	115838	Strand	-
Start	13749	End	18836
Name	OJ000302_06.0420.C20.o3.tm	Method	TBLASTX:Maize
Start	13758	End	13898
GI	none	Score	144
Exons	13758..13898, 13768..13896		

Seq. No.	55272	Seq. ID	OJ000302_06.0420.C20
Gene No.	115838	Strand	-
Start	13749	End	18836
Name	OJ000302_06.0420.C20.o1.tc	Method	TBLASTX:Cress
Start	13764	End	18394
GI	none	Score	154
Exons	13764..13898, 13768..13896, 14172..14435, 14293..14436, 14508..14654, 14512..14640, 14541..14642, 14562..14645, 14677..14730, 14724..14771, 14724..15134, 14725..15048, 14847..15125, 15097..15141, 17879..18394, 17895..18080, 18071..18247		

Seq. No.	55272	Seq. ID	OJ000302_06.0420.C20
Gene No.	115838	Strand	-
Start	13749	End	18836
Name	OJ000302_06.0420.C20.o1.tm	Method	TBLASTX:Maize
Start	14172	End	15110
GI	none	Score	48
Exons	14172..14402, 14359..14418, 14514..14642, 14515..14640, 14724..15110, 14725..15054, 14847..15110		

Seq. No.	55272	Seq. ID	OJ000302_06.0420.C20
Gene No.	115838	Strand	-
Start	13749	End	18836
Name	OJ000302_06.0420.C20.o1.tw	Method	TBLASTX:Wheat

Start	14811	End	17935
GI	none	Score	196
Exons	14811..15122, 14821..15057, 14928..15122, 17870..17923, 17870..17935		

Seq. No.	55272	Seq. ID	OJ000302_06.0420.C20
Gene No.	115838	Strand	-
Start	13749	End	18836
Name	OJ000302_06.0420.C20.o2.tm	Method	TBLASTX:Maize
Start	17873	End	18349
GI	none	Score	81
Exons	17873..18193, 17876..17971, 17898..17999, 18071..18304, 18245..18349		

Seq. No.	55272	Seq. ID	OJ000302_06.0420.C20
Gene No.	115838	Strand	-
Start	13749	End	18836
Name	OJ000302_06.0420.C20.o2.ts	Method	TBLASTX:Soybean
Start	17939	End	18349
GI	none	Score	82
Exons	17939..18349, 17952..18002, 18071..18301		

Seq. No.	55272	Seq. ID	OJ000302_06.0420.C20
Gene No.	115838	Strand	-
Start	13749	End	18836
Name	OJ000302_06.0420.C20.o3.gp	Method	AAT/GAP
Start	18324	End	18836
GI	none	Score	928
Exons	18324..18836		

Seq. No.	55273	Seq. ID	OJ000302_06.0420.C21
Gene No.	115839	Strand	+
Start	872	End	1328
Name	OJ000302_06.0420.C21.o1.gp	Method	AAT/GAP
Start	872	End	1328
GI	none	Score	862
Exons	872..1328		

Seq. No.	55273	Seq. ID	OJ000302_06.0420.C21
Gene No.	115840	Strand	-
Start	395	End	6349
Name	OJ000302_06.0420.C21.o1.gs	Method	GENSCAN
Start	395	End	6066
GI	none	Score	.85
Exons	395..441, 1269..1554, 1628..1702, 4951..5123, 5379..6066		

Seq. No.	55273	Seq. ID	OJ000302_06.0420.C21
Gene No.	115840	Strand	-
Start	395	End	6349
Name	OJ000302_06.0420.C21.o1.np	Method	AAT/NAP
Start	1132	End	6024
GI	2213591	Score	660
Exons	1132..1358, 1413..1554, 1649..1702, 4960..5147, 5367..6024		
GI Descrip.	(AC000348) T7N9.11 [Arabidopsis thaliana]		

Seq. No.	55273	Seq. ID	OJ000302_06.0420.C21
Gene No.	115840	Strand	-

Start	395	End	6349
Name	OJ000302_06.0420.C21.o2.gp	Method	AAT/GAP
Start	5030	End	5545
GI	LIB3432-006-P1-K1-A7	Score	433
Exons	5030..5123, 5379..5545		
GI Descrip.	'2213591 1.0e-08 (AC000348) T7N9.11 [Arabidopsis thaliana]'		

Seq. No.	55273	Seq. ID	OJ000302_06.0420.C21
Gene No.	115840	Strand	-
Start	395	End	6349
Name	OJ000302_06.0420.C21.o2.np	Method	AAT/NAP
Start	5381	End	6349
GI	6523547	Score	266
Exons	5381..6349		
GI Descrip.	(AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox carteri f. nagariensis]		

Seq. No.	55273	Seq. ID	OJ000302_06.0420.C21
Gene No.	115840	Strand	-
Start	395	End	6349
Name	OJ000302_06.0420.C21.o3.gp	Method	AAT/GAP
Start	5672	End	6121
GI	uC-osflM202083f08b1	Score	873
Exons	5672..6121		
GI Descrip.	'2213591 7.0e-15 (AC000348) T7N9.11 [Arabidopsis thaliana]'		

Seq. No.	55273	Seq. ID	OJ000302_06.0420.C21
Gene No.	115841	Strand	-
Start	7225	End	7314
Name	OJ000302_06.0420.C21.o1.tm	Method	TBLASTX:Maize
Start	1011	End	5697
GI	none	Score	41
Exons	1011..1070, 1012..1056, 1074..1184, 1087..1131, 1089..1154, 1176..1211, 1209..1238, 1352..1381, 1358..1372, 1415..1456, 1450..1554, 1475..1561, 1476..1562, 1626..1703, 1627..1704, 1628..1705, 1628..1705, 4973..5020, 5056..5130, 5057..5128, 5233..5253, 5380..5697, 5381..5539, 5630..5689		

Seq. No.	55273	Seq. ID	OJ000302_06.0420.C21
Gene No.	115841	Strand	-
Start	7225	End	7314
Name	OJ000302_06.0420.C21.o1.tc	Method	TBLASTX:Cress
Start	5560	End	5997
GI	none	Score	82
Exons	5560..5697, 5833..5997, 5858..5965		

Seq. No.	55273	Seq. ID	OJ000302_06.0420.C21
Gene No.	115841	Strand	-
Start	7225	End	7314
Name	OJ000302_06.0420.C21.o1.ts	Method	TBLASTX:Soybean
Start	5833	End	5994
GI	none	Score	190
Exons	5833..5994		

Seq. No.	55273	Seq. ID	OJ000302_06.0420.C21
Gene No.	115841	Strand	-
Start	7225	End	7314

Name	OJ000302_06.0420.C21.o2.tm	Method	TBLASTX:Maize
Start	5833	End	5997
GI	none	Score	134
Exons	5833..5997, 5858..5980, 5911..5982		

Seq. No.	55273	Seq. ID	OJ000302_06.0420.C21
Gene No.	115841	Strand	-
Start	7225	End	7314
Name	OJ000302_06.0420.C21.o2.gs	Method	GENSCAN
Start	7225	End	7314
GI	none	Score	.85
Exons	7225..7314		

Seq. No.	55274	Seq. ID	OJ000302_06.0420.C22
Gene No.	115842	Strand	+
Start	781	End	1732
Name	OJ000302_06.0420.C22.o1.gs	Method	GENSCAN
Start	781	End	1732
GI	none	Score	.9
Exons	781..1616, 1669..1732		

Seq. No.	55274	Seq. ID	OJ000302_06.0420.C22
Gene No.	115843	Strand	+
Start	5185	End	5921
Name	OJ000302_06.0420.C22.o3.gs	Method	GENSCAN
Start	5185	End	5921
GI	none	Score	.99
Exons	5185..5685, 5724..5921		

Seq. No.	55274	Seq. ID	OJ000302_06.0420.C22
Gene No.	115844	Strand	+
Start	6812	End	8509
Name	OJ000302_06.0420.C22.o4.gs	Method	GENSCAN
Start	6812	End	8509
GI	none	Score	.91
Exons	6812..6866, 7193..7368, 7991..8509		

Seq. No.	55274	Seq. ID	OJ000302_06.0420.C22
Gene No.	115845	Strand	+
Start	9907	End	10481
Name	OJ000302_06.0420.C22.o5.gs	Method	GENSCAN
Start	9907	End	10481
GI	none	Score	.66
Exons	9907..9913, 10094..10149, 10371..10481		

Seq. No.	55274	Seq. ID	OJ000302_06.0420.C22
Gene No.	115846	Strand	+
Start	10740	End	11474
Name	OJ000302_06.0420.C22.o6.gs	Method	GENSCAN
Start	10740	End	11474
GI	none	Score	1
Exons	10740..11474		

Seq. No.	55274	Seq. ID	OJ000302_06.0420.C22
Gene No.	115847	Strand	+
Start	12676	End	13822
Name	OJ000302_06.0420.C22.o7.gs	Method	GENSCAN

Start	12676	End	13822
GI	none	Score	.88
Exons	12676..12730, 12827..12930, 12936..13244, 13637..13822		

Seq. No.	55274	Seq. ID	OJ000302_06.0420.C22
Gene No.	115848	Strand	+
Start	14508	End	14960
Name	OJ000302_06.0420.C22.o8.gs	Method	GENSCAN
Start	14508	End	14960
GI	none	Score	1
Exons	14508..14960		

Seq. No.	55274	Seq. ID	OJ000302_06.0420.C22
Gene No.	115849	Strand	-
Start	1	End	15087
Name	OJ000302_06.0420.C22.o1.np	Method	AAT/NAP
Start	1	End	15087
GI	7484961	Score	254
Exons	1..55, 1032..1107, 1390..1513, 5592..5718, 11136..11273, 12612..12725, 13215..13433, 13751..13808, 14879..15087		
GI Descrip.	extensin homolog T9E8.80 - Arabidopsis thaliana gi|4584539|emb|CAB40769.1| (AL049608) extensin-like protein [Arabidopsis thaliana] gi|7268037|emb|CAB78376.1| (AL161536) extensin-like protein [Arabidopsis thaliana]		

Seq. No.	55274	Seq. ID	OJ000302_06.0420.C22
Gene No.	115849	Strand	-
Start	1	End	15087
Name	OJ000302_06.0420.C22.o2.gs	Method	GENSCAN
Start	2913	End	4119
GI	none	Score	.55
Exons	2913..3059, 3614..3664, 3669..3813, 4118..4119		

Seq. No.	55275	Seq. ID	OJ000302_06.0420.C23
Gene No.	115850	Strand	+
Start	1713	End	5182
Name	OJ000302_06.0420.C23.o1.gs	Method	GENSCAN
Start	1713	End	3193
GI	none	Score	.76
Exons	1713..1769, 3074..3193		

Seq. No.	55275	Seq. ID	OJ000302_06.0420.C23
Gene No.	115850	Strand	+
Start	1713	End	5182
Name	OJ000302_06.0420.C23.o2.np	Method	AAT/NAP
Start	2818	End	2912
GI	6630699	Score	77
Exons	2818..2912		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	55275	Seq. ID	OJ000302_06.0420.C23
Gene No.	115850	Strand	+
Start	1713	End	5182
Name	OJ000302_06.0420.C23.o3.np	Method	AAT/NAP
Start	3039	End	5182

GI	6539570	Score	171
Exons	3039..3240, 3413..3501, 4754..4858, 5006..5182		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	55275	Seq. ID	OJ000302_06.0420.C23
Gene No.	115850	Strand	+
Start	1713	End	5182
Name	OJ000302_06.0420.C23.o1.gp	Method	AAT/GAP
Start	4623	End	4910
GI	none	Score	523
Exons	4623..4910		

Seq. No.	55275	Seq. ID	OJ000302_06.0420.C23
Gene No.	115851	Strand	-
Start	2154	End	5350
Name	OJ000302_06.0420.C23.o1.np	Method	AAT/NAP
Start	2154	End	5151
GI	6498436	Score	201
Exons	2154..2267, 2507..2828, 5116..5151		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	55275	Seq. ID	OJ000302_06.0420.C23
Gene No.	115851	Strand	-
Start	2154	End	5350
Name	OJ000302_06.0420.C23.o4.np	Method	AAT/NAP
Start	3299	End	5011
GI	6539570	Score	71
Exons	3299..3318, 4740..5011		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	55275	Seq. ID	OJ000302_06.0420.C23
Gene No.	115851	Strand	-
Start	2154	End	5350
Name	OJ000302_06.0420.C23.o2.gs	Method	GENSCAN
Start	4664	End	5350
GI	none	Score	.64
Exons	4664..4789, 4952..5350		

Seq. No.	55276	Seq. ID	OJ000313_40.0419.C2
Gene No.	115852	Strand	+
Start	2636	End	4370
Name	OJ000313_40.0419.C2.o2.np	Method	AAT/NAP
Start	2636	End	4370
GI	5803252	Score	451
Exons	2636..2669, 4122..4370		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	55276	Seq. ID	OJ000313_40.0419.C2
Gene No.	115853	Strand	+
Start	5595	End	6096
Name	OJ000313_40.0419.C2.o3.np	Method	AAT/NAP
Start	5595	End	6096
GI	5803253	Score	322
Exons	5595..5679, 5972..6096		
GI Descrip.	(AP000399) ESTs AU068856(C50756),AU077979(C61370) correspond to a region of the predicted gene; similar to serine protease (AF097709) [Oryza sativa]		

Seq. No.	55276	Seq. ID	OJ000313_40.0419.C2
Gene No.	115854	Strand	-
Start	613	End	4020
Name	OJ000313_40.0419.C2.o1.np	Method	AAT/NAP
Start	498	End	1567
GI	5803251	Score	772
Exons	498..665, 728..778, 1032..1284, 1539..1567		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	55276	Seq. ID	OJ000313_40.0419.C2
Gene No.	115854	Strand	-
Start	613	End	4020
Name	OJ000313_40.0419.C2.o1.gs	Method	GENSCAN
Start	613	End	4020
GI	none	Score	.74
Exons	613..665, 728..1284, 1745..2068, 2960..3043, 3345..3504, 3858..4020		

Seq. No.	55276	Seq. ID	OJ000313_40.0419.C2
Gene No.	115854	Strand	-
Start	613	End	4020
Name	OJ000313_40.0419.C2.o1.tm	Method	TBLASTX:Maize
Start	3314	End	3505
GI	none	Score	93
Exons	3314..3463, 3343..3396, 3396..3503, 3398..3505, 3398..3505		

Seq. No.	55277	Seq. ID	OJ000313_40.0419.C3
Gene No.	115855	Strand	+
Start	1	End	1427
Name	OJ000313_40.0419.C3.o1.gp	Method	AAT/GAP
Start	1	End	470
GI	LIB3475-007-P1-K1-G8	Score	733
Exons	1..143, 220..470		
GI Descrip.	'5441880/dbj|BAA82378.1| 5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]'		

Seq. No.	55277	Seq. ID	OJ000313_40.0419.C3
Gene No.	115855	Strand	+
Start	1	End	1427
Name	OJ000313_40.0419.C3.o1.np	Method	AAT/NAP
Start	1	End	1427
GI	5441880	Score	1309
Exons	1..143, 220..478, 723..796, 833..856, 947..1078, 1193..1427		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	55277	Seq. ID	OJ000313_40.0419.C3
Gene No.	115855	Strand	+
Start	1	End	1427
Name	OJ000313_40.0419.C3.o1.gs	Method	GENSCAN
Start	28	End	1395
GI	none	Score	.66
Exons	28..143, 220..478, 571..748, 947..1031, 1141..1188, 1193..1395		

Seq. No.	55278	Seq. ID	OJ000313_40.0419.C4
Gene No.	115856	Strand	+
Start	1	End	239
Name	OJ000313_40.0419.C4.o1.gp	Method	AAT/GAP
Start	1	End	239
GI	LIB3431-045-P1-N1-A10	Score	474
Exons	1..239		
GI Descrip.	'5441876/dbj|AP000367.1|AP000367 0.0e+00 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig b)'		

Seq. No.	55278	Seq. ID	OJ000313_40.0419.C4
Gene No.	115857	Strand	+
Start	510	End	650
Name	OJ000313_40.0419.C4.o1.gs	Method	GENSCAN
Start	510	End	650
GI	none	Score	.44
Exons	510..650		

Seq. No.	55278	Seq. ID	OJ000313_40.0419.C4
Gene No.	115858	Strand	-
Start	182	End	602
Name	OJ000313_40.0419.C4.o2.gp	Method	AAT/GAP
Start	182	End	588
GI	7406_1.R1084	Score	681
Exons	182..588		
GI Descrip.	'1122315/emb|CAA63901| 7.0e-10 (X94191) heat shock protein 17.0 [Pennisetum glaucum]'		

Seq. No.	55278	Seq. ID	OJ000313_40.0419.C4
Gene No.	115858	Strand	-
Start	182	End	602
Name	OJ000313_40.0419.C4.o1.np	Method	AAT/NAP
Start	474	End	602
GI	6721543	Score	91
Exons	474..602		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	55278	Seq. ID	OJ000313_40.0419.C4
Gene No.	115859	Strand	-
Start	1209	End	2580
Name	OJ000313_40.0419.C4.o2.np	Method	AAT/NAP
Start	970	End	2580
GI	7339707	Score	148
Exons	970..1113, 1192..1336, 1425..1653, 2372..2580		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	55278	Seq. ID	OJ000313_40.0419.C4
Gene No.	115859	Strand	-
Start	1209	End	2580
Name	OJ000313_40.0419.C4.o2.gs	Method	GENSCAN
Start	1209	End	1775
GI	none	Score	.7
Exons	1209..1494, 1499..1775		

Seq. No.	55279	Seq. ID	OJ000313_40.0419.C5
Gene No.	115860	Strand	+
Start	1	End	3008

Name	OJ000313_40.0419.C5.o1.np	Method	AAT/NAP
Start	1	End	3008
GI	7339707	Score	107
Exons	1..196, 276..571, 1469..1597, 1839..1881, 2028..2219, 2724..3008		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	55279	Seq. ID	OJ000313_40.0419.C5
Gene No.	115861	Strand	-
Start	12	End	869
Name	OJ000313_40.0419.C5.o1.gs	Method	GENSCAN
Start	12	End	869
GI	none	Score	.53
Exons	12..318, 380..674, 749..869		

Seq. No.	55279	Seq. ID	OJ000313_40.0419.C5
Gene No.	115862	Strand	-
Start	1903	End	2379
Name	OJ000313_40.0419.C5.o2.gs	Method	GENSCAN
Start	1903	End	2379
GI	none	Score	.92
Exons	1903..2379		

Seq. No.	55280	Seq. ID	OJ000313_40.0419.C6
Gene No.	115863	Strand	-
Start	1	End	1511
Name	OJ000313_40.0419.C6.o1.np	Method	AAT/NAP
Start	1	End	1511
GI	7228442	Score	2591
Exons	1..1511		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog. (AC003981) [Oryza sativa]		

Seq. No.	55280	Seq. ID	OJ000313_40.0419.C6
Gene No.	115863	Strand	-
Start	1	End	1511
Name	OJ000313_40.0419.C6.o1.gp	Method	AAT/GAP
Start	24	End	454
GI	5701669	Score	832
Exons	24..454		
GI Descrip.	5441880/dbj|BAA82378.1| 5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	55280	Seq. ID	OJ000313_40.0419.C6
Gene No.	115863	Strand	-
Start	1	End	1511
Name	OJ000313_40.0419.C6.o1.tw	Method	TBLASTX:Wheat
Start	24	End	203
GI	none	Score	90
Exons	24..194, 57..203		

Seq. No.	55280	Seq. ID	OJ000313_40.0419.C6
Gene No.	115863	Strand	-
Start	1	End	1511
Name	OJ000313_40.0419.C6.o1.tm	Method	TBLASTX:Maize
Start	54	End	497

GI	none	Score	151
Exons	54..335, 97..318, 369..497, 391..489		

Seq. No.	55281	Seq. ID	OJ000313_40.0419.C7
Gene No.	115864	Strand	+
Start	81	End	1903
Name	OJ000313_40.0419.C7.o1.gs	Method	GENSCAN
Start	81	End	1873
GI	none	Score	.96
Exons	81..221, 1646..1873		

Seq. No.	55281	Seq. ID	OJ000313_40.0419.C7
Gene No.	115864	Strand	+
Start	81	End	1903
Name	OJ000313_40.0419.C7.o1.gp	Method	AAT/GAP
Start	140	End	1903
GI	LIB3432-042-P2-K1-D10	Score	614
Exons	140..221, 1646..1903		
GI Descrip.	'4455258/emb|CAB36757.1| 2.0e-12 (AL035523) acid phosphatase-like protein [Arabidopsis thaliana]'		

Seq. No.	55281	Seq. ID	OJ000313_40.0419.C7
Gene No.	115865	Strand	+
Start	3597	End	5846
Name	OJ000313_40.0419.C7.o2.gs	Method	GENSCAN
Start	3597	End	5631
GI	none	Score	.91
Exons	3597..4090, 4405..4614, 5454..5631		

Seq. No.	55281	Seq. ID	OJ000313_40.0419.C7
Gene No.	115865	Strand	+
Start	3597	End	5846
Name	OJ000313_40.0419.C7.o1.np	Method	AAT/NAP
Start	3648	End	5628
GI	130718	Score	739
Exons	3648..3768, 3814..4090, 4405..4614, 5454..5628		
GI Descrip.	ACID PHOSPHATASE PRECURSOR 1 gi|170370 (M83211) acid phosphatase type 1 [Lycopersicon esculentum] gi|170372 (M67474) acid phosphatase type 5 [Lycopersicon esculentum] gi|445121|prf||1908427A acid phosphatase 1 [Lycopersicon esculentum]		

Seq. No.	55281	Seq. ID	OJ000313_40.0419.C7
Gene No.	115865	Strand	+
Start	3597	End	5846
Name	OJ000313_40.0419.C7.o2.gp	Method	AAT/GAP
Start	5512	End	5846
GI	5038615	Score	630
Exons	5512..5846		
GI Descrip.	4455258/emb|CAB36757.1| 2.0e-12 (AL035523) acid phosphatase-like protein [Arabidopsis thaliana]		

Seq. No.	55281	Seq. ID	OJ000313_40.0419.C7
Gene No.	115866	Strand	+
Start	6923	End	7008
Name	OJ000313_40.0419.C7.o3.gp	Method	AAT/GAP
Start	6923	End	7008

GI	3678_1.R1084	Score	103
Exons	6923..7008		
GI Descrip.	'2511594/emb|CAA74028.1| 3.0e-35 (Y13694) multicatalytic endopeptidase complex, proteasome precursor, beta subunit [Arabidopsis thaliana] >gi_2827525_emb_CAA16533.1_ (AL021633) multicatalytic endopeptidase complex, proteasome precursor, beta subunit [Arabidopsis thaliana] >gi_3421099 (AF043529) 20S proteasome subunit PBA1 [Arabidopsis thaliana]'		

Seq. No.	55281	Seq. ID	OJ000313_40.0419.C7
Gene No.	115867	Strand	-
Start	6314	End	9544
Name	OJ000313_40.0419.C7.o3.gs	Method	GENSCAN
Start	6314	End	9412
GI	none	Score	.95
Exons	6314..6445, 6932..7006, 7221..7294, 7679..7790, 7923..7995, 8178..8233, 8566..8642, 9271..9412		

Seq. No.	55281	Seq. ID	OJ000313_40.0419.C7
Gene No.	115867	Strand	-
Start	6314	End	9544
Name	OJ000313_40.0419.C7.o2.np	Method	AAT/NAP
Start	6317	End	9373
GI	7435895	Score	754
Exons	6317..6445, 6932..7006, 7221..7294, 7679..7790, 7923..7995, 8178..8233, 8566..8642, 9271..9373		
GI Descrip.	multicatalytic endopeptidase complex (EC 3.4.99.46) beta chain - Arabidopsis thaliana gi|2511594|emb|CAA74028.1| (Y13694) multicatalytic endopeptidase complex, proteasome precursor, beta subunit [Arabidopsis thaliana] gi|2827525|emb|CAA16533.1| (AL021633) multicatalytic endopeptidase complex, proteasome precursor, beta subunit [Arabidopsis thaliana] gi|3421099|gb|AAC32065.1		

Seq. No.	55281	Seq. ID	OJ000313_40.0419.C7
Gene No.	115867	Strand	-
Start	6314	End	9544
Name	OJ000313_40.0419.C7.o4.gp	Method	AAT/GAP
Start	7916	End	9544
GI	7094_2.R1084	Score	615
Exons	7916..7995, 8178..8233, 8566..8642, 9271..9544		
GI Descrip.	'5441880/dbj|BAA82378.1| 5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]'		

Seq. No.	55281	Seq. ID	OJ000313_40.0419.C7
Gene No.	115868	Strand	-
Start	10806	End	13218
Name	OJ000313_40.0419.C7.o2.tc	Method	TBLASTX:Cress
Start	1688	End	1873
GI	none	Score	228
Exons	1688..1873, 1688..1822		

Seq. No.	55281	Seq. ID	OJ000313_40.0419.C7
Gene No.	115868	Strand	-
Start	10806	End	13218
Name	OJ000313_40.0419.C7.o1.tm	Method	TBLASTX:Maize

Start	3728	End	4040
GI	none	Score	63
Exons	3728..3763, 3729..3764, 3776..3997, 3834..3998, 3960..4040		

Seq. No.	55281	Seq. ID	OJ000313_40.0419.C7
Gene No.	115868	Strand	-
Start	10806	End	13218
Name	OJ000313_40.0419.C7.o1.ts	Method	TBLASTX:Soybean
Start	3834	End	4626
GI	none	Score	336
Exons	3834..4103, 3836..4102, 4403..4618, 4406..4618, 4435..4626		

Seq. No.	55281	Seq. ID	OJ000313_40.0419.C7
Gene No.	115868	Strand	-
Start	10806	End	13218
Name	OJ000313_40.0419.C7.o1.tc	Method	TBLASTX:Cress
Start	3837	End	5631
GI	none	Score	246
Exons	3837..4094, 3839..4096, 4403..4444, 4409..4615, 4438..4542, 5446..5631, 5451..5627, 5533..5631		

Seq. No.	55281	Seq. ID	OJ000313_40.0419.C7
Gene No.	115868	Strand	-
Start	10806	End	13218
Name	OJ000313_40.0419.C7.o2.ts	Method	TBLASTX:Soybean
Start	5464	End	5631
GI	none	Score	233
Exons	5464..5631, 5472..5627		

Seq. No.	55281	Seq. ID	OJ000313_40.0419.C7
Gene No.	115868	Strand	-
Start	10806	End	13218
Name	OJ000313_40.0419.C7.o3.tm	Method	TBLASTX:Maize
Start	6255	End	9385
GI	none	Score	43
Exons	6255..6293, 6260..6295, 6301..6444, 6314..6445, 6315..6446, 6924..7007, 6924..7007, 7218..7301, 7221..7304, 7222..7302, 7229..7318, 7675..7791, 7677..7793, 7678..7791, 7923..7994, 7923..7994, 7924..7998, 7924..7995, 8133..8231, 8177..8233, 8178..8234, 8560..8643, 8565..8642, 8566..8643, 8567..8644, 9269..9385, 9276..9377		

Seq. No.	55281	Seq. ID	OJ000313_40.0419.C7
Gene No.	115868	Strand	-
Start	10806	End	13218
Name	OJ000313_40.0419.C7.o2.tw	Method	TBLASTX:Wheat
Start	7240	End	8628
GI	none	Score	77
Exons	7240..7302, 7242..7304, 7635..7793, 7678..7788, 7923..8021, 7923..7994, 8130..8225, 8177..8233, 8178..8234, 8179..8241, 8560..8628, 8566..8619, 8567..8626		

Seq. No.	55281	Seq. ID	OJ000313_40.0419.C7
Gene No.	115868	Strand	-
Start	10806	End	13218
Name	OJ000313_40.0419.C7.o3.tw	Method	TBLASTX:Wheat
Start	9269	End	9383

GI	none	Score	141
Exons	9269..9382, 9276..9383		
Seq. No.	55281	Seq. ID	OJ000313_40.0419.C7
Gene No.	115868	Strand	-
Start	10806	End	13218
Name	OJ000313_40.0419.C7.o4.gs	Method	GENSCAN
Start	10806	End	13085
GI	none	Score	.87
Exons	10806..13085		
Seq. No.	55281	Seq. ID	OJ000313_40.0419.C7
Gene No.	115868	Strand	-
Start	10806	End	13218
Name	OJ000313_40.0419.C7.o1.tw	Method	TBLASTX:Wheat
Start	11109	End	13028
GI	none	Score	80
Exons	11109..11480, 11146..11301, 11356..11400, 11547..11708, 11571..11708, 11868..12056, 12525..12647, 12798..13028, 12798..12995		
Seq. No.	55281	Seq. ID	OJ000313_40.0419.C7
Gene No.	115868	Strand	-
Start	10806	End	13218
Name	OJ000313_40.0419.C7.o2.tm	Method	TBLASTX:Maize
Start	11112	End	13034
GI	none	Score	134
Exons	11112..11465, 11113..11409, 11253..11465, 11550..11708, 11868..12044, 11868..12008, 12141..12227, 12525..12647, 12795..13034, 12798..12986		
Seq. No.	55281	Seq. ID	OJ000313_40.0419.C7
Gene No.	115868	Strand	-
Start	10806	End	13218
Name	OJ000313_40.0419.C7.o3.ts	Method	TBLASTX:Soybean
Start	11118	End	13016
GI	none	Score	66
Exons	11118..11516, 11151..11399, 11151..11306, 11160..11273, 11370..11405, 11577..11708, 11652..11711, 11703..11762, 11715..11762, 11868..12056, 11868..12044, 11871..11987, 12144..12272, 12144..12227, 12507..12629, 12756..13001, 12798..13001, 12873..13007, 12879..13016		
Seq. No.	55281	Seq. ID	OJ000313_40.0419.C7
Gene No.	115868	Strand	-
Start	10806	End	13218
Name	OJ000313_40.0419.C7.o3.np	Method	AAT/NAP
Start	11126	End	13218
GI	7489084	Score	718
Exons	11126..13218		
GI Descrip.	disease resistance protein Cf-2.2 - currant tomato gi|1184077|gb|AAC15780.1| (U42445) Cf-2.2 [Lycopersicon pimpinellifolium]		
Seq. No.	55281	Seq. ID	OJ000313_40.0419.C7
Gene No.	115868	Strand	-
Start	10806	End	13218

Name	OJ000313_40.0419.C7.o3.tc	Method	TBLASTX:Cress
Start	11139	End	13004
GI	none	Score	64
Exons	11139..11423, 11148..11408, 11151..11426, 11151..11414, 11151..11426, 11151..11306, 11151..11405, 11151..11306, 11151..11264, 11154..11414, 11154..11306, 11199..11405, 11223..11417, 11349..11405, 11544..11708, 11550..11705, 11550..11708, 11550..11708, 11550..11696, 11550..11705, 11554..11688, 11556..11687, 11565..11681, 11574..11705, 11577..11687, 11709..11762, 11721..11762, 11868..12044, 11868..12044, 11868..12053, 11868..12056, 11868..12044, 11871..12044, 11940..12050, 12141..12227, 12141..12227, 12144..12227, 12525..12647, 12525..12647, 12525..12629, 12525..12647, 12741..12803, 12741..12803, 12804..13004, 12804..12986, 12804..12998, 12804..12995		

Seq. No.	55282	Seq. ID	OJ000313_40.0419.C8
Gene No.	115869	Strand	+
Start	25	End	298
Name	OJ000313_40.0419.C8.o1.gs	Method	GENSCAN
Start	25	End	298
GI	none	Score	.55
Exons	25..174, 260..298		

Seq. No.	55282	Seq. ID	OJ000313_40.0419.C8
Gene No.	115870	Strand	+
Start	6956	End	7187
Name	OJ000313_40.0419.C8.o3.np	Method	AAT/NAP
Start	6956	End	7187
GI	5295951	Score	134
Exons	6956..7187		
GI Descrip.	(AB026295) Similar to Herpesvirus papio BRRF2 homolog gene, partial cds.(U23857) [Oryza sativa]		

Seq. No.	55282	Seq. ID	OJ000313_40.0419.C8
Gene No.	115871	Strand	-
Start	109	End	6728
Name	OJ000313_40.0419.C8.o1.np	Method	AAT/NAP
Start	109	End	3456
GI	2924262	Score	72
Exons	109..141, 1617..1796, 3358..3456		
GI Descrip.	(Z00044) PSII 44kd protein [Nicotiana tabacum]		

Seq. No.	55282	Seq. ID	OJ000313_40.0419.C8
Gene No.	115871	Strand	-
Start	109	End	6728
Name	OJ000313_40.0419.C8.o2.gs	Method	GENSCAN
Start	1574	End	6680
GI	none	Score	.73
Exons	1574..1771, 2129..2167, 2269..2320, 2453..2517, 2591..2674, 3497..3544, 3625..3745, 4162..4264, 4809..4890, 5023..5070, 5346..5482, 5578..5666, 6559..6680		

Seq. No.	55282	Seq. ID	OJ000313_40.0419.C8
Gene No.	115871	Strand	-
Start	109	End	6728
Name	OJ000313_40.0419.C8.o2.tm	Method	TBLASTX:Maize

Start	1990	End	4641
GI	none	Score	49
Exons	1990..2016, 2118..2168, 2129..2170, 2129..2170, 2262..2324, 2266..2328, 2269..2322, 2448..2519, 2452..2520, 2452..2520, 2453..2521, 2590..2676, 2591..2680, 2592..2675, 3496..3546, 3497..3547, 3498..3548, 3622..3738, 3622..3735, 3624..3737, 4162..4230, 4164..4229, 4169..4234, 4221..4265, 4225..4266, 4227..4265, 4600..4641		

Seq. No.	55282	Seq. ID	OJ000313_40.0419.C8
Gene No.	115871	Strand	-
Start	109	End	6728
Name	OJ000313_40.0419.C8.o2.np	Method	AAT/NAP
Start	4155	End	6626
GI	3258571	Score	402
Exons	4155..4264, 4809..4922, 5016..5070, 5346..5482, 5578..5666, 6559..6626		
GI Descrip.	(U89959) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55282	Seq. ID	OJ000313_40.0419.C8
Gene No.	115871	Strand	-
Start	109	End	6728
Name	OJ000313_40.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	4836	End	5667
GI	none	Score	41
Exons	4836..4862, 4863..4904, 5026..5118, 5029..5076, 5344..5496, 5346..5486, 5585..5665, 5588..5662, 5614..5667		

Seq. No.	55282	Seq. ID	OJ000313_40.0419.C8
Gene No.	115871	Strand	-
Start	109	End	6728
Name	OJ000313_40.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	5356	End	5666
GI	none	Score	68
Exons	5356..5400, 5358..5402, 5422..5475, 5433..5486, 5573..5665, 5577..5666		

Seq. No.	55282	Seq. ID	OJ000313_40.0419.C8
Gene No.	115871	Strand	-
Start	109	End	6728
Name	OJ000313_40.0419.C8.o1.gp	Method	AAT/GAP
Start	5406	End	6728
GI	428880	Score	632
Exons	5406..5482, 5578..5666, 6559..6728		
GI Descrip.	3258571 4.0e-22 (U89959) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55283	Seq. ID	OJ000313_40.0419.C9
Gene No.	115872	Strand	-
Start	152	End	1189
Name	OJ000313_40.0419.C9.o1.gs	Method	GENSCAN
Start	152	End	944
GI	none	Score	.62
Exons	152..944		

Seq. No.	55283	Seq. ID	OJ000313_40.0419.C9
Gene No.	115872	Strand	-

Start	152	End	1189
Name	OJ000313_40.0419.C9.o1.np	Method	AAT/NAP
Start	447	End	1189
GI	3894383	Score	296
Exons	447..804, 943..1189		
GI Descrip.	(AF053993) disease resistance protein [Lycopersicon esculentum]		

Seq. No.	55283	Seq. ID	OJ000313_40.0419.C9
Gene No.	115872	Strand	-
Start	152	End	1189
Name	OJ000313_40.0419.C9.o1.ts	Method	TBLASTX:Soybean
Start	453	End	1089
GI	none	Score	146
Exons	453..656, 480..797, 481..798, 552..698, 612..740, 687..806, 936..1052, 942..1085, 949..1089, 951..1079		

Seq. No.	55283	Seq. ID	OJ000313_40.0419.C9
Gene No.	115872	Strand	-
Start	152	End	1189
Name	OJ000313_40.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	480	End	1076
GI	none	Score	113
Exons	480..653, 588..722, 660..794, 942..1076		

Seq. No.	55283	Seq. ID	OJ000313_40.0419.C9
Gene No.	115872	Strand	-
Start	152	End	1189
Name	OJ000313_40.0419.C9.o1.tw	Method	TBLASTX:Wheat
Start	480	End	1079
GI	none	Score	59
Exons	480..743, 495..806, 526..720, 936..1079, 969..1079		

Seq. No.	55283	Seq. ID	OJ000313_40.0419.C9
Gene No.	115872	Strand	-
Start	152	End	1189
Name	OJ000313_40.0419.C9.o1.tc	Method	TBLASTX:Cress
Start	483	End	1085
GI	none	Score	88
Exons	483..806, 537..782, 543..806, 543..806, 543..806, 543..797, 564..734, 567..806, 616..774, 661..795, 708..797, 942..1085, 942..1082, 942..1079, 951..1082, 966..1073, 969..1082, 990..1085		

Seq. No.	55284	Seq. ID	OJ000313_40.0419.C12
Gene No.	115873	Strand	+
Start	5595	End	6029
Name	OJ000313_40.0419.C12.o2.np	Method	AAT/NAP
Start	5595	End	6029
GI	5803248	Score	172
Exons	5595..5711, 5940..6029		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	55284	Seq. ID	OJ000313_40.0419.C12
Gene No.	115874	Strand	-
Start	1717	End	3092
Name	OJ000313_40.0419.C12.o1.gp	Method	AAT/GAP
Start	1717	End	3092
GI	955_1.R1084	Score	568

Exons	1717..1786, 2795..3092		
GI Descrip.	'5803246/dbj|BAA83556.1| 2.0e-89 (AP000399) ESTs AU077984(C62969),D41648(S4289), AU063584(C62969) correspond to a region of the predicted gene; similar to putative Ser/Thr protein kinase (AC003105) [Oryza sativa]'		

Seq. No.	55284	Seq. ID	OJ000313_40.0419.C12
Gene No.	115875	Strand	-
Start	4587	End	5363
Name	OJ000313_40.0419.C12.o1.np	Method	AAT/NAP
Start	4587	End	5363
GI	5803247	Score	450
Exons	4587..4705, 4825..4903, 5077..5138, 5291..5363		
GI Descrip.	(AP000399) similar to OsENOD93a gene for early nodulin (AB018375) [Oryza sativa]		

Seq. No.	55284	Seq. ID	OJ000313_40.0419.C12
Gene No.	115876	Strand	-
Start	5558	End	5791
Name	OJ000313_40.0419.C12.o2.gs	Method	GENSCAN
Start	5558	End	5791
GI	none	Score	.77
Exons	5558..5791		

Seq. No.	55285	Seq. ID	OJ000313_40.0419.C13
Gene No.	115877	Strand	+
Start	806	End	898
Name	OJ000313_40.0419.C13.o1.np	Method	AAT/NAP
Start	806	End	898
GI	5803248	Score	152
Exons	806..898		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	55285	Seq. ID	OJ000313_40.0419.C13
Gene No.	115878	Strand	-
Start	816	End	947
Name	OJ000313_40.0419.C13.o1.gs	Method	GENSCAN
Start	816	End	947
GI	none	Score	.51
Exons	816..947		

Seq. No.	55286	Seq. ID	OJ000313_40.0419.C14
Gene No.	115879	Strand	+
Start	116	End	623
Name	OJ000313_40.0419.C14.o1.gs	Method	GENSCAN
Start	116	End	623
GI	none	Score	.95
Exons	116..127, 373..443, 512..623		

Seq. No.	55287	Seq. ID	OJ000313_40.0419.C15
Gene No.	115880	Strand	+
Start	1	End	183
Name	OJ000313_40.0419.C15.o1.gp	Method	AAT/GAP
Start	1	End	183
GI	268_1.R1084	Score	302
Exons	1..183		
GI Descrip.	'5006849/gb|AAD37695.1|AF145726_1 6.0e-97 (AF145726) homeodomain		

leucine zipper protein [Oryza sativa]'

Seq. No.	55287	Seq. ID	OJ000313_40.0419.C15
Gene No.	115881	Strand	+
Start	309	End	426
Name	OJ000313_40.0419.C15.o1.gs	Method	GENSCAN
Start	309	End	426
GI	none	Score	.43
Exons	309..426		

Seq. No.	55288	Seq. ID	OJ000313_40.0419.C16
Gene No.	115882	Strand	+
Start	1719	End	1933
Name	OJ000313_40.0419.C16.o1.gs	Method	GENSCAN
Start	1719	End	1933
GI	none	Score	.77
Exons	1719..1758, 1820..1933		

Seq. No.	55289	Seq. ID	OJ000313_40.0419.C17
Gene No.	115883	Strand	+
Start	43	End	7900
Name	OJ000313_40.0419.C17.o1.np	Method	AAT/NAP
Start	43	End	7900
GI	7489084	Score	987
Exons	43..102, 896..1278, 1513..1973, 2268..2402, 2607..2961, 3055..3377, 6870..7684, 7740..7900		
GI Descrip.	disease resistance protein Cf-2.2 - currant tomato gi|1184077|gb|AAC15780.1| (U42445) Cf-2.2 [Lycopersicon pimpinellifolium]		

Seq. No.	55289	Seq. ID	OJ000313_40.0419.C17
Gene No.	115883	Strand	+
Start	43	End	7900
Name	OJ000313_40.0419.C17.o1.gs	Method	GENSCAN
Start	112	End	318
GI	none	Score	.82
Exons	112..318		

Seq. No.	55289	Seq. ID	OJ000313_40.0419.C17
Gene No.	115883	Strand	+
Start	43	End	7900
Name	OJ000313_40.0419.C17.o2.gs	Method	GENSCAN
Start	833	End	3484
GI	none	Score	.45
Exons	833..3484		

Seq. No.	55289	Seq. ID	OJ000313_40.0419.C17
Gene No.	115883	Strand	+
Start	43	End	7900
Name	OJ000313_40.0419.C17.o1.ts	Method	TBLASTX:Soybean
Start	959	End	7885
GI	none	Score	72
Exons	959..1030, 1172..1297, 1175..1294, 1199..1318, 1496..1816, 1508..1768, 1517..1699, 1535..1768, 1580..1750, 1652..1768, 1799..2002, 1880..1996, 2099..2365, 2246..2380, 2441..2620, 2456..2572, 2494..2718, 2534..2638, 2690..2785, 2690..2794, 2696..2800, 2849..2959, 2849..2965, 3212..3382, 3215..3313,		

3220..3312, 6563..6661, 6563..6697, 6995..7153, 6995..7141,
6995..7153, 7166..7414, 7181..7441, 7250..7294, 7388..7621,
7391..7600, 7622..7747, 7772..7819, 7838..7885

Seq. No.	55289	Seq. ID	OJ000313_40.0419.C17
Gene No.	115883	Strand	+
Start	43	End	7900
Name	OJ000313_40.0419.C17.o1.tc	Method	TBLASTX:Cress
Start	1001	End	7888
GI	none	Score	60

Exons 1001..1081, 1091..1183, 1169..1294, 1169..1297, 1172..1297,
1172..1318, 1172..1297, 1172..1297, 1496..1774, 1499..1768,
1502..1699, 1505..1768, 1508..1699, 1517..1768, 1517..1768,
1517..1768, 1517..1789, 1517..1777, 1517..1696, 1790..1996,
1799..2005, 1799..1996, 1799..1999, 1805..1996, 1808..2002,
1808..1996, 1817..1996, 1817..2002, 1820..1957, 2240..2410,
2375..2569, 2426..2800, 2444..2782, 2447..2800, 2456..2782,
2459..2794, 2459..2638, 2690..2800, 2696..2800, 2849..2965,
2849..2950, 2849..2929, 2849..2935, 2849..2950, 2849..2962,
2867..2938, 3103..3366, 3115..3303, 3119..3376, 3122..3304,
3122..3376, 3122..3307, 3122..3304, 3122..3307, 3122..3169,
3128..3376, 3136..3375, 3193..3378, 3212..3379, 3215..3376,
3215..3304, 3221..3424, 6392..6472, 6479..6571, 6560..6664,
6560..6691, 6560..6676, 6563..6697, 6563..6697, 6563..6700,
6812..6940, 6893..6952, 6893..6940, 6992..7255, 6992..7264,
6995..7084, 6995..7153, 6995..7198, 6995..7177, 6995..7255,
7046..7198, 7060..7152, 7109..7162, 7172..7372, 7175..7381,
7181..7378, 7181..7387, 7190..7378, 7214..7327, 7214..7384,
7216..7371, 7217..7372, 7273..7371, 7391..7609, 7622..7747,
7625..7750, 7748..7822, 7766..7888

Seq. No.	55289	Seq. ID	OJ000313_40.0419.C17
Gene No.	115883	Strand	+
Start	43	End	7900
Name	OJ000313_40.0419.C17.o1.tm	Method	TBLASTX:Maize
Start	1172	End	7882
GI	none	Score	79

Exons 1172..1291, 1172..1294, 1502..1726, 1532..1768, 1799..1999,
1832..1990, 1832..1990, 2369..2440, 2687..2800, 2690..2797,
2849..2953, 3128..3304, 3208..3303, 3221..3376, 6563..6697,
6563..6697, 6890..6940, 6992..7198, 7214..7378, 7283..7387,
7490..7600, 7637..7747, 7637..7747, 7856..7882

Seq. No.	55289	Seq. ID	OJ000313_40.0419.C17
Gene No.	115883	Strand	+
Start	43	End	7900
Name	OJ000313_40.0419.C17.o2.np	Method	AAT/NAP
Start	6511	End	7900
GI	1076763	Score	274

Exons 6511..6657, 6826..7474, 7547..7900

GI Descrip. AWJL218 protein - wheat gi|551212|emb|CAA57134| (X81369) AWJL218
[Triticum aestivum]

Seq. No.	55290	Seq. ID	OJ000313_40.0419.C19
Gene No.	115884	Strand	+
Start	69	End	408
Name	OJ000313_40.0419.C19.o1.gs	Method	GENSCAN

Start	69	End	408
GI	none	Score	.95
Exons	69..119, 358..408		

Seq. No.	55291	Seq. ID	OJ000313_40.0419.C20
Gene No.	115885	Strand	+
Start	286	End	606
Name	OJ000313_40.0419.C20.o1.gs	Method	GENSCAN
Start	286	End	606
GI	none	Score	.71
Exons	286..606		

Seq. No.	55292	Seq. ID	OJ000313_40.0419.C22
Gene No.	115886	Strand	+
Start	1	End	360
Name	OJ000313_40.0419.C22.o1.gp	Method	AAT/GAP
Start	1	End	360
GI	955_1.R1084	Score	634
Exons	1..360		
GI Descrip.	'5803246/dbj|BAA83556.1| 2.0e-89 (AP000399) ESTs AU077984(C62969),D41648(S4289), AU063584(C62969) correspond to a region of the predicted gene; similar to putative Ser/Thr protein kinase (AC003105) [Oryza sativa]'		

Seq. No.	55292	Seq. ID	OJ000313_40.0419.C22
Gene No.	115887	Strand	+
Start	1562	End	2044
Name	OJ000313_40.0419.C22.o1.gs	Method	GENSCAN
Start	1562	End	2044
GI	none	Score	.41
Exons	1562..1593, 1909..2044		

Seq. No.	55292	Seq. ID	OJ000313_40.0419.C22
Gene No.	115888	Strand	+
Start	2532	End	5205
Name	OJ000313_40.0419.C22.o1.np	Method	AAT/NAP
Start	2532	End	5202
GI	5803245	Score	1390
Exons	2532..3044, 4069..4120, 4940..5202		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	55292	Seq. ID	OJ000313_40.0419.C22
Gene No.	115888	Strand	+
Start	2532	End	5205
Name	OJ000313_40.0419.C22.o2.gs	Method	GENSCAN
Start	2532	End	5205
GI	none	Score	.77
Exons	2532..3044, 3362..3466, 4069..4168, 4940..5205		

Seq. No.	55292	Seq. ID	OJ000313_40.0419.C22
Gene No.	115889	Strand	+
Start	6392	End	7226
Name	OJ000313_40.0419.C22.o2.np	Method	AAT/NAP
Start	6392	End	7226
GI	5803244	Score	1226
Exons	6392..6539, 6617..7226		
GI Descrip.	(AP000399) similar to hexose carrier protein HEX6 &RCCHCP_1		

(Q07423) [Oryza sativa]

Seq. No.	55292	Seq. ID	OJ000313_40.0419.C22
Gene No.	115889	Strand	+
Start	6392	End	7226
Name	OJ000313_40.0419.C22.o3.gs	Method	GENSCAN
Start	6392	End	7185
GI	none	Score	.97
Exons	6392..6539, 6617..7185		

Seq. No.	55292	Seq. ID	OJ000313_40.0419.C22
Gene No.	115890	Strand	-
Start	5146	End	5526
Name	OJ000313_40.0419.C22.o3.tm	Method	TBLASTX:Maize
Start	3121	End	3400
GI	none	Score	121
Exons	3121..3267, 3124..3270, 3128..3283, 3360..3398, 3361..3399, 3362..3400		

Seq. No.	55292	Seq. ID	OJ000313_40.0419.C22
Gene No.	115890	Strand	-
Start	5146	End	5526
Name	OJ000313_40.0419.C22.o2.ts	Method	TBLASTX:Soybean
Start	3206	End	5171
GI	none	Score	116
Exons	3206..3283, 3208..3270, 3361..3465, 3361..3465, 3362..3466, 3368..3484, 4060..4167, 4067..4195, 4068..4166, 4572..4664, 4572..4664, 4573..4668, 4935..5159, 4938..5045, 4939..5163, 5100..5171		

Seq. No.	55292	Seq. ID	OJ000313_40.0419.C22
Gene No.	115890	Strand	-
Start	5146	End	5526
Name	OJ000313_40.0419.C22.o1.tm	Method	TBLASTX:Maize
Start	3400	End	5460
GI	none	Score	109
Exons	3400..3465, 3401..3466, 4066..4167, 4068..4166, 4069..4167, 4118..4168, 4571..4663, 4572..4664, 4573..4668, 4573..4668, 4935..5210, 4937..5221, 4939..5208, 5323..5346, 5324..5347, 5378..5413, 5425..5460		

Seq. No.	55292	Seq. ID	OJ000313_40.0419.C22
Gene No.	115890	Strand	-
Start	5146	End	5526
Name	OJ000313_40.0419.C22.o2.gp	Method	AAT/GAP
Start	5146	End	5526
GI	LIB3433-006-Q6-K6-H4	Score	701
Exons	5146..5526		
GI Descrip.	'5803242/dbj|AP000399.1|AP000399 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0535G04'		

Seq. No.	55292	Seq. ID	OJ000313_40.0419.C22
Gene No.	115891	Strand	
Start	6479	End	7224
Name	OJ000313_40.0419.C22.o1.ts	Method	TBLASTX:Soybean
Start	6479	End	7206
GI	none	Score	88

Exons	6479..6547, 6621..6827, 6622..6822, 6880..7206, 6930..7190		
Seq. No.	55292	Seq. ID	OJ000313_40.0419.C22
Gene No.	115891	Strand	
Start	6479	End	7224
Name	OJ000313_40.0419.C22.o1.tc	Method	TBLASTX:Cress
Start	6482	End	7176
GI	none	Score	92
Exons	6482..6547, 6622..6693, 6697..7080, 6930..7076, 7080..7175, 7081..7176		
Seq. No.	55292	Seq. ID	OJ000313_40.0419.C22
Gene No.	115891	Strand	
Start	6479	End	7224
Name	OJ000313_40.0419.C22.o4.tm	Method	TBLASTX:Maize
Start	6482	End	6827
GI	none	Score	79
Exons	6482..6547, 6622..6822, 6625..6726, 6705..6827		
Seq. No.	55292	Seq. ID	OJ000313_40.0419.C22
Gene No.	115891	Strand	
Start	6479	End	7224
Name	OJ000313_40.0419.C22.o2.tm	Method	TBLASTX:Maize
Start	6928	End	7224
GI	none	Score	295
Exons	6928..7224, 6945..7175		
Seq. No.	55293	Seq. ID	OJ000313_40.0419.C23
Gene No.	115892	Strand	+
Start	1	End	504
Name	OJ000313_40.0419.C23.o1.np	Method	AAT/NAP
Start	1	End	501
GI	5803244	Score	872
Exons	1..501		
GI Descrip.	(AP000399) similar to hexose carrier protein HEX6 &RCCHCP_1 (Q07423) [Oryza sativa]		
Seq. No.	55293	Seq. ID	OJ000313_40.0419.C23
Gene No.	115892	Strand	+
Start	1	End	504
Name	OJ000313_40.0419.C23.o1.gs	Method	GENSCAN
Start	73	End	504
GI	none	Score	.62
Exons	73..504		
Seq. No.	55293	Seq. ID	OJ000313_40.0419.C23
Gene No.	115893	Strand	+
Start	1851	End	3380
Name	OJ000313_40.0419.C23.o2.gs	Method	GENSCAN
Start	1851	End	3380
GI	none	Score	.54
Exons	1851..1943, 2816..3032, 3094..3380		
Seq. No.	55293	Seq. ID	OJ000313_40.0419.C23
Gene No.	115893	Strand	+
Start	1851	End	3380
Name	OJ000313_40.0419.C23.o2.np	Method	AAT/NAP

Start	3174	End	3377
GI	5803243	Score	335
Exons	3174..3377		
GI Descrip.	(AP000399) ESTs AU078033(R0160),D23790(R0160) correspond to a region of the predicted gene; hypothetical protein [Oryza sativa]		

Seq. No.	55293	Seq. ID	OJ000313_40.0419.C23
Gene No.	115894	Strand	-
Start	3003	End	3807
Name	OJ000313_40.0419.C23.o1.ts	Method	TBLASTX:Soybean
Start	1	End	455
GI	none	Score	87
Exons	1..99, 3..44, 148..447, 159..455		

Seq. No.	55293	Seq. ID	OJ000313_40.0419.C23
Gene No.	115894	Strand	-
Start	3003	End	3807
Name	OJ000313_40.0419.C23.o1.tc	Method	TBLASTX:Cress
Start	3	End	444
GI	none	Score	403
Exons	3..56, 4..444, 156..443		

Seq. No.	55293	Seq. ID	OJ000313_40.0419.C23
Gene No.	115894	Strand	-
Start	3003	End	3807
Name	OJ000313_40.0419.C23.o1.tm	Method	TBLASTX:Maize
Start	3	End	452
GI	none	Score	380
Exons	3..56, 4..444, 159..452		

Seq. No.	55293	Seq. ID	OJ000313_40.0419.C23
Gene No.	115894	Strand	-
Start	3003	End	3807
Name	OJ000313_40.0419.C23.o1.tw	Method	TBLASTX:Wheat
Start	148	End	452
GI	none	Score	298
Exons	148..444, 159..452		

Seq. No.	55293	Seq. ID	OJ000313_40.0419.C23
Gene No.	115894	Strand	-
Start	3003	End	3807
Name	OJ000313_40.0419.C23.o1.gp	Method	AAT/GAP
Start	3003	End	3807
GI	60022_1.R1084	Score	1582
Exons	3003..3807		
GI Descrip.	'5803243/dbj|BAA83553.1| 6.0e-29 (AP000399) ESTs AU078033(R0160),D23790(R0160) correspond to a region of the predicted gene; hypothetical protein [Oryza sativa]'		

Seq. No.	55294	Seq. ID	OJ000313_40.0419.C24
Gene No.	115895	Strand	+
Start	242	End	423
Name	OJ000313_40.0419.C24.o1.gs	Method	GENSCAN
Start	242	End	423
GI	none	Score	.63
Exons	242..423		

Seq. No.	55295	Seq. ID	OJ000313_40.0419.C25
Gene No.	115896	Strand	+
Start	3772	End	4742
Name	OJ000313_40.0419.C25.o1.gp	Method	AAT/GAP
Start	3705	End	3991
GI	none	Score	524
Exons	3705..3991		

Seq. No.	55295	Seq. ID	OJ000313_40.0419.C25
Gene No.	115896	Strand	+
Start	3772	End	4742
Name	OJ000313_40.0419.C25.o2.gs	Method	GENSCAN
Start	3772	End	4680
GI	none	Score	.88
Exons	3772..4125, 4131..4155, 4238..4680		

Seq. No.	55295	Seq. ID	OJ000313_40.0419.C25
Gene No.	115896	Strand	+
Start	3772	End	4742
Name	OJ000313_40.0419.C25.o1.np	Method	AAT/NAP
Start	3793	End	4742
GI	5006849	Score	428
Exons	3793..4125, 4238..4742		
GI Descrip.	(AF145726) homeodomain leucine zipper protein [Oryza sativa]		

Seq. No.	55295	Seq. ID	OJ000313_40.0419.C25
Gene No.	115897	Strand	+
Start	4749	End	5043
Name	OJ000313_40.0419.C25.o2.gp	Method	AAT/GAP
Start	4749	End	5043
GI	LIB3434-057-P1-K1-C6	Score	223
Exons	4749..4885, 4984..5043		
GI Descrip.	'1420932/gb|U61383|ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence'		

Seq. No.	55295	Seq. ID	OJ000313_40.0419.C25
Gene No.	115898	Strand	-
Start	2368	End	2622
Name	OJ000313_40.0419.C25.o1.gs	Method	GENSCAN
Start	2368	End	2622
GI	none	Score	.99
Exons	2368..2622		

Seq. No.	55295	Seq. ID	OJ000313_40.0419.C25
Gene No.	115899	Strand	
Start	4048	End	4534
Name	OJ000313_40.0419.C25.o1.tc	Method	TBLASTX:Cress
Start	4048	End	4534
GI	none	Score	101
Exons	4048..4125, 4053..4124, 4237..4350, 4238..4423, 4468..4503, 4481..4534		

Seq. No.	55295	Seq. ID	OJ000313_40.0419.C25
Gene No.	115899	Strand	
Start	4048	End	4534
Name	OJ000313_40.0419.C25.o1.ts	Method	TBLASTX:Soybean

Start	4048	End	4533
GI	none	Score	108
Exons	4048..4131, 4053..4130, 4237..4350, 4238..4423, 4468..4533, 4481..4507		

Seq. No.	55295	Seq. ID	OJ000313_40.0419.C25
Gene No.	115899	Strand	
Start	4048	End	4534
Name	OJ000313_40.0419.C25.o1.tm	Method	TBLASTX:Maize
Start	4225	End	4423
GI	none	Score	249
Exons	4225..4350, 4235..4423		

Seq. No.	55296	Seq. ID	OJ000313_40.0419.C26
Gene No.	115900	Strand	-
Start	74	End	517
Name	OJ000313_40.0419.C26.o1.np	Method	AAT/NAP
Start	74	End	503
GI	5803246	Score	670
Exons	74..503		
GI Descrip.	(AP000399) ESTs AU077984(C62969),D41648(S4289), AU063584(C62969) correspond to a region of the predicted gene; similar to putative Ser/Thr protein kinase (AC003105) [Oryza sativa]		

Seq. No.	55296	Seq. ID	OJ000313_40.0419.C26
Gene No.	115900	Strand	-
Start	74	End	517
Name	OJ000313_40.0419.C26.o1.tm	Method	TBLASTX:Maize
Start	114	End	498
GI	none	Score	58
Exons	114..188, 148..267, 207..389, 270..320, 272..343, 381..497, 406..498		

Seq. No.	55296	Seq. ID	OJ000313_40.0419.C26
Gene No.	115900	Strand	-
Start	74	End	517
Name	OJ000313_40.0419.C26.o1.ts	Method	TBLASTX:Soybean
Start	147	End	483
GI	5677740	Score	54
Exons	147..182, 151..183, 231..323, 275..322, 276..320, 324..356, 405..482, 409..483		
GI Descrip.	2760836 8.0e-54 (AC003105) putative Ser/Thr protein kinase [Arabidopsis thaliana]		

Seq. No.	55296	Seq. ID	OJ000313_40.0419.C26
Gene No.	115900	Strand	-
Start	74	End	517
Name	OJ000313_40.0419.C26.o1.gp	Method	AAT/GAP
Start	149	End	517
GI	955_1.R1084	Score	680
Exons	149..517		
GI Descrip.	'5803246/dbj|BAA83556.1| 2.0e-89 (AP000399) ESTs AU077984(C62969),D41648(S4289), AU063584(C62969) correspond to a region of the predicted gene; similar to putative Ser/Thr protein kinase (AC003105) [Oryza sativa]'		

Seq. No.	55296	Seq. ID	OJ000313_40.0419.C26

Gene No.	115900	Strand	-
Start	74	End	517
Name	OJ000313_40.0419.C26.o1.gs	Method	GENSCAN
Start	151	End	503
GI	none	Score	.97
Exons	151..503		

Seq. No.	55296	Seq. ID	OJ000313_40.0419.C26
Gene No.	115900	Strand	-
Start	74	End	517
Name	OJ000313_40.0419.C26.o1.tc	Method	TBLASTX:Cress
Start	222	End	492
GI	none	Score	94
Exons	222..323, 315..368, 405..488,	421..492	

Seq. No.	55297	Seq. ID	OJ000313_40.0419.C27
Gene No.	115901	Strand	+
Start	1	End	1186
Name	OJ000313_40.0419.C27.o1.np	Method	AAT/NAP
Start	1	End	1186
GI	5441880	Score	973
Exons	1..97, 593..743, 849..1186		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	55297	Seq. ID	OJ000313_40.0419.C27
Gene No.	115901	Strand	+
Start	1	End	1186
Name	OJ000313_40.0419.C27.o1.gs	Method	GENSCAN
Start	79	End	1095
GI	none	Score	.83
Exons	79..217, 593..743, 849..1095		

Seq. No.	55298	Seq. ID	OJ000323_40.0424.C3
Gene No.	115902	Strand	+
Start	2334	End	4521
Name	OJ000323_40.0424.C3.o1.np	Method	AAT/NAP
Start	2334	End	4521
GI	7486760	Score	628
Exons	2334..2367, 3130..3277, 3727..4521		
GI Descrip.	hypothetical protein F9N11.100 - Arabidopsis thaliana gi|5730135|emb|CAB52469.1| (AL109796) putative protein [Arabidopsis thaliana] gi|7269925|emb|CAB81018.1| (AL161576) putative protein [Arabidopsis thaliana]		

Seq. No.	55298	Seq. ID	OJ000323_40.0424.C3
Gene No.	115902	Strand	+
Start	2334	End	4521
Name	OJ000323_40.0424.C3.o2.gs	Method	GENSCAN
Start	3262	End	4458
GI	none	Score	1
Exons	3262..4458		

Seq. No.	55298	Seq. ID	OJ000323_40.0424.C3
Gene No.	115902	Strand	+
Start	2334	End	4521

Name	OJ000323_40.0424.C3.o1.gp	Method	AAT/GAP
Start	3735	End	4116
GI	3762098	Score	752
Exons	3735..4116		
GI Descrip.	4874284/gb|AAD31347.1|AC007212_3 4.0e-25 (AC007212) putative mitochondrial protein [Arabidopsis thaliana]		

Seq. No.	55298	Seq. ID	OJ000323_40.0424.C3
Gene No.	115902	Strand	+
Start	2334	End	4521
Name	OJ000323_40.0424.C3.o2.gp	Method	AAT/GAP
Start	4297	End	4521
GI	15951_1.R1084	Score	415
Exons	4297..4521		
GI Descrip.	'4835245/emb|CAB42923.1| 5.0e-32 (AL049862) putative mitochondrial protein [Arabidopsis thaliana]'		

Seq. No.	55298	Seq. ID	OJ000323_40.0424.C3
Gene No.	115903	Strand	-
Start	591	End	1948
Name	OJ000323_40.0424.C3.o1.gs	Method	GENSCAN
Start	591	End	1948
GI	none	Score	.67
Exons	591..1247, 1907..1948		

Seq. No.	55298	Seq. ID	OJ000323_40.0424.C3
Gene No.	115904	Strand	
Start	3294	End	4512
Name	OJ000323_40.0424.C3.o2.tm	Method	TBLASTX:Maize
Start	3294	End	3552
GI	none	Score	60
Exons	3294..3332, 3297..3551, 3328..3552		

Seq. No.	55298	Seq. ID	OJ000323_40.0424.C3
Gene No.	115904	Strand	
Start	3294	End	4512
Name	OJ000323_40.0424.C3.o1.ts	Method	TBLASTX:Soybean
Start	3400	End	4512
GI	none	Score	110
Exons	3400..3579, 3736..3894, 3907..4266, 3918..4064, 4095..4268, 4362..4511, 4363..4512		

Seq. No.	55298	Seq. ID	OJ000323_40.0424.C3
Gene No.	115904	Strand	
Start	3294	End	4512
Name	OJ000323_40.0424.C3.o3.tm	Method	TBLASTX:Maize
Start	3736	End	3912
GI	none	Score	192
Exons	3736..3912, 3819..3908		

Seq. No.	55298	Seq. ID	OJ000323_40.0424.C3
Gene No.	115904	Strand	
Start	3294	End	4512
Name	OJ000323_40.0424.C3.o1.tm	Method	TBLASTX:Maize
Start	3921	End	4488
GI	none	Score	501
Exons	3921..4274, 3922..4266, 4354..4488, 4356..4487		

Seq. No.	55298	Seq. ID	OJ000323_40.0424.C3
Gene No.	115904	Strand	
Start	3294	End	4512
Name	OJ000323_40.0424.C3.o2.tc	Method	TBLASTX:Cress
Start	3945	End	4143
GI	none	Score	138
Exons	3945..4055, 3946..4080, 4081..4143		

Seq. No.	55298	Seq. ID	OJ000323_40.0424.C3
Gene No.	115904	Strand	
Start	3294	End	4512
Name	OJ000323_40.0424.C3.o1.tc	Method	TBLASTX:Cress
Start	4357	End	4512
GI	none	Score	203
Exons	4357..4512, 4374..4511		

Seq. No.	55298	Seq. ID	OJ000323_40.0424.C3
Gene No.	115904	Strand	
Start	3294	End	4512
Name	OJ000323_40.0424.C3.o1.tw	Method	TBLASTX:Wheat
Start	4368	End	4512
GI	none	Score	187
Exons	4368..4508, 4369..4512		

Seq. No.	55299	Seq. ID	OJ000323_40.0424.C4
Gene No.	115905	Strand	+
Start	1	End	194
Name	OJ000323_40.0424.C4.o1.gp	Method	AAT/GAP
Start	1	End	194
GI	15951_1.R1084	Score	362
Exons	1..194		
GI Descrip.	'4835245/emb|CAB42923.1| 5.0e-32 (AL049862) putative mitochondrial protein [Arabidopsis thaliana]'		

Seq. No.	55299	Seq. ID	OJ000323_40.0424.C4
Gene No.	115906	Strand	+
Start	325	End	520
Name	OJ000323_40.0424.C4.o1.gs	Method	GENSCAN
Start	325	End	520
GI	none	Score	.86
Exons	325..520		

Seq. No.	55300	Seq. ID	OJ000323_40.0424.C5
Gene No.	115907	Strand	+
Start	192	End	3259
Name	OJ000323_40.0424.C5.o1.np	Method	AAT/NAP
Start	192	End	3259
GI	7485479	Score	588
Exons	192..256, 2082..2381, 2651..3259		
GI Descrip.	hypothetical protein F14M19.110 - Arabidopsis thaliana gi|4539301|emb|CAB39604.1| (AL049480) putative mitochondrial protein [Arabidopsis thaliana] gi|7269434|emb|CAB79438.1| (AL161564) putative mitochondrial protein [Arabidopsis thaliana]		

Seq. No.	55300	Seq. ID	OJ000323_40.0424.C5
Gene No.	115907	Strand	+

Start	192	End	3259
Name	OJ000323_40.0424.C5.o1.gp	Method	AAT/GAP
Start	1640	End	2139
GI	none	Score	978
Exons	1640..2139		

Seq. No.	55300	Seq. ID	OJ000323_40.0424.C5
Gene No.	115907	Strand	+
Start	192	End	3259
Name	OJ000323_40.0424.C5.o2.gs	Method	GENSCAN
Start	1729	End	3200
GI	none	Score	.98
Exons	1729..2381, 2639..3200		

Seq. No.	55300	Seq. ID	OJ000323_40.0424.C5
Gene No.	115907	Strand	+
Start	192	End	3259
Name	OJ000323_40.0424.C5.o1.ts	Method	TBLASTX:Soybean
Start	1885	End	3257
GI	none	Score	72
Exons	1885..1989, 2095..2163, 2658..3008, 2666..2986, 3108..3257, 3134..3256		

Seq. No.	55300	Seq. ID	OJ000323_40.0424.C5
Gene No.	115907	Strand	+
Start	192	End	3259
Name	OJ000323_40.0424.C5.o1.tm	Method	TBLASTX:Maize
Start	2658	End	3230
GI	none	Score	478
Exons	2658..3008, 2660..2986, 3108..3230, 3111..3173, 3137..3226		

Seq. No.	55301	Seq. ID	OJ000323_40.0424.C6
Gene No.	115908	Strand	+
Start	1	End	129
Name	OJ000323_40.0424.C6.o1.gp	Method	AAT/GAP
Start	1	End	129
GI	none	Score	238
Exons	1..129		

Seq. No.	55301	Seq. ID	OJ000323_40.0424.C6
Gene No.	115909	Strand	-
Start	1	End	1818
Name	OJ000323_40.0424.C6.o1.np	Method	AAT/NAP
Start	1	End	1812
GI	5803100	Score	631
Exons	1..48, 544..669, 754..822, 901..1005, 1095..1133, 1217..1516, 1593..1652, 1759..1812		
GI Descrip.	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 18 (Myc-regulated) gi|7446077|pir||S71758 DEAD box protein MrDb, Myc-regulated - human gi|1498229|emb|CAA67295.1| (X98743) RNA helicase [Homo sapiens]		

Seq. No.	55301	Seq. ID	OJ000323_40.0424.C6
Gene No.	115909	Strand	-
Start	1	End	1818
Name	OJ000323_40.0424.C6.o1.tm	Method	TBLASTX:Maize
Start	1	End	1510

GI	none	Score	70
Exons	1..51, 5..55, 541..669, 544..669, 736..828, 758..829, 899..1006, 902..1006, 1094..1138, 1095..1133, 1200..1496, 1215..1508, 1216..1509, 1217..1510		

Seq. No.	55301	Seq. ID	OJ000323_40.0424.C6
Gene No.	115909	Strand	-
Start	1	End	1818
Name	OJ000323_40.0424.C6.o1.tc	Method	TBLASTX:Cress
Start	1	End	1468
GI	none	Score	91
Exons	1..45, 547..669, 560..670, 560..670, 754..828, 857..994, 949..1005, 1098..1133, 1098..1133, 1099..1134, 1201..1341, 1215..1466, 1217..1468		

Seq. No.	55301	Seq. ID	OJ000323_40.0424.C6
Gene No.	115909	Strand	-
Start	1	End	1818
Name	OJ000323_40.0424.C6.o2.ts	Method	TBLASTX:Soybean
Start	1	End	841
GI	4298843	Score	57
Exons	1..51, 8..55, 544..669, 544..666, 754..828, 755..841		
GI Descrip.	2827700/emb_CAA16673_ 4.0e-30 (AL021684) DEAD box ATP dependent helicase protein [Arabidopsis thaliana]		

Seq. No.	55301	Seq. ID	OJ000323_40.0424.C6
Gene No.	115909	Strand	-
Start	1	End	1818
Name	OJ000323_40.0424.C6.o2.gp	Method	AAT/GAP
Start	191	End	805
GI	uC-osflcyp157c03b1	Score	1004
Exons	191..669, 754..805		
GI Descrip.	'5803100/ref|NP_006764.1|pDDX18| 9.0e-13 DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 18 (Myc-regulated) >gi_1498229_emb_CAA67295_ (X98743) RNA helicase [Homo sapiens]'		

Seq. No.	55301	Seq. ID	OJ000323_40.0424.C6
Gene No.	115909	Strand	-
Start	1	End	1818
Name	OJ000323_40.0424.C6.o1.gs	Method	GENSCAN
Start	544	End	1818
GI	none	Score	.86
Exons	544..735, 901..1005, 1095..1133, 1217..1516, 1593..1682, 1771..1818		

Seq. No.	55301	Seq. ID	OJ000323_40.0424.C6
Gene No.	115909	Strand	-
Start	1	End	1818
Name	OJ000323_40.0424.C6.o1.ts	Method	TBLASTX:Soybean
Start	926	End	1349
GI	none	Score	60
Exons	926..994, 949..1008, 1093..1134, 1095..1133, 1201..1344, 1215..1349, 1215..1346, 1217..1348		

Seq. No.	55302	Seq. ID	OJ000323_40.0424.C7
Gene No.	115910	Strand	+
Start	617	End	1013

Name	OJ000323_40.0424.C7.o1.gp	Method	AAT/GAP
Start	617	End	1013
GI	none	Score	762
Exons	617..1013		

Seq. No.	55303	Seq. ID	OJ000323_40.0424.C8
Gene No.	115911	Strand	+
Start	1	End	886
Name	OJ000323_40.0424.C8.o1.np	Method	AAT/NAP
Start	1	End	886
GI	4234846	Score	540
Exons	1..886		
GI Descrip.	(AF082130) gag-pol polyprotein [Zea mays]		

Seq. No.	55303	Seq. ID	OJ000323_40.0424.C8
Gene No.	115911	Strand	+
Start	1	End	886
Name	OJ000323_40.0424.C8.o1.gp	Method	AAT/GAP
Start	89	End	662
GI	uC-osflcyp006a10b1	Score	858
Exons	89..303, 411..662		
GI Descrip.	'4234846 7.0e-13 (AF082130) gag-pol polyprotein [Zea mays]'		

Seq. No.	55303	Seq. ID	OJ000323_40.0424.C8
Gene No.	115911	Strand	+
Start	1	End	886
Name	OJ000323_40.0424.C8.o1.gs	Method	GENSCAN
Start	105	End	578
GI	none	Score	.48
Exons	105..578		

Seq. No.	55304	Seq. ID	OJ000323_40.0424.C10
Gene No.	115912	Strand	+
Start	1	End	933
Name	OJ000323_40.0424.C10.o1.gp	Method	AAT/GAP
Start	1	End	345
GI	57441_1.R1084	Score	425
Exons	1..117, 222..345		
GI Descrip.	'2129752/pir||S58123 5.0e-28 thioredoxin - Arabidopsis thaliana >gi_992964_emb_CAA84612_ (Z35475) thioredoxin [Arabidopsis thaliana]'		

Seq. No.	55304	Seq. ID	OJ000323_40.0424.C10
Gene No.	115912	Strand	+
Start	1	End	933
Name	OJ000323_40.0424.C10.o1.tm	Method	TBLASTX:Maize
Start	1	End	344
GI	none	Score	116
Exons	1..120, 6..140, 213..344, 221..340, 225..344		

Seq. No.	55304	Seq. ID	OJ000323_40.0424.C10
Gene No.	115912	Strand	+
Start	1	End	933
Name	OJ000323_40.0424.C10.o1.tw	Method	TBLASTX:Wheat
Start	1	End	344
GI	none	Score	96
Exons	1..120, 213..344, 221..340, 267..344		

Seq. No.	55304	Seq. ID	OJ000323_40.0424.C10
Gene No.	115912	Strand	+
Start	1	End	933
Name	OJ000323_40.0424.C10.o1.gs	Method	GENSCAN
Start	1	End	344
GI	none	Score	1
Exons	1..117, 222..344		

Seq. No.	55304	Seq. ID	OJ000323_40.0424.C10
Gene No.	115912	Strand	+
Start	1	End	933
Name	OJ000323_40.0424.C10.o1.np	Method	AAT/NAP
Start	28	End	933
GI	2117424	Score	129
Exons	28..117, 222..349, 913..933		
GI Descrip.	thioredoxin (clone GIF1) - Arabidopsis thaliana gi|992962|emb|CAA84611.1| (Z35474) thioredoxin [Arabidopsis thaliana] gi|1388076|gb|AAC49351.1| (U35640) thioredoxin h [Arabidopsis thaliana]		

Seq. No.	55305	Seq. ID	OJ000323_40.0424.C11
Gene No.	115913	Strand	+
Start	105	End	3911
Name	OJ000323_40.0424.C11.o1.gp	Method	AAT/GAP
Start	105	End	627
GI	62018_1.R1084	Score	573
Exons	105..256, 457..627		
GI Descrip.	'2435519 5.0e-34 (AF024504) similar to mouse MEM3 (GB:U47024 and S. cerevisiae vacuolar sorting protein 35 (SW;P34110) [Arabidopsis thaliana]'		

Seq. No.	55305	Seq. ID	OJ000323_40.0424.C11
Gene No.	115913	Strand	+
Start	105	End	3911
Name	OJ000323_40.0424.C11.o1.gs	Method	GENSCAN
Start	105	End	3517
GI	none	Score	.9
Exons	105..256, 2693..3113, 3119..3190, 3199..3295, 3391..3517		

Seq. No.	55305	Seq. ID	OJ000323_40.0424.C11
Gene No.	115913	Strand	+
Start	105	End	3911
Name	OJ000323_40.0424.C11.o1.tm	Method	TBLASTX:Maize
Start	2868	End	3518
GI	none	Score	39
Exons	2868..2897, 2868..2891, 2885..2977, 3012..3113, 3015..3113, 3077..3115, 3190..3294, 3191..3286, 3198..3290, 3390..3503, 3392..3517, 3393..3518		

Seq. No.	55305	Seq. ID	OJ000323_40.0424.C11
Gene No.	115913	Strand	+
Start	105	End	3911
Name	OJ000323_40.0424.C11.o2.gp	Method	AAT/GAP
Start	2966	End	3479
GI	426219	Score	592
Exons	2966..3113, 3199..3295, 3391..3479		

GI Descrip. 2435519 5.0e-34 (AF024504) similar to mouse MEM3 (GB:U47024 and S. cerevisiae vacuolar sorting protein 35 (SW;P34110) [Arabidopsis thaliana]

Seq. No.	55305	Seq. ID	OJ000323_40.0424.C11
Gene No.	115913	Strand	+
Start	105	End	3911
Name	OJ000323_40.0424.C11.o1.np	Method	AAT/NAP
Start	3021	End	3911
GI	6598811	Score	354
Exons	3021..3113, 3199..3295, 3391..3519, 3814..3911		
GI Descrip.	(AF024504) putative vacuolar sorting-associated protein [Arabidopsis thaliana]		

Seq. No.	55305	Seq. ID	OJ000323_40.0424.C11
Gene No.	115913	Strand	+
Start	105	End	3911
Name	OJ000323_40.0424.C11.o1.ts	Method	TBLASTX:Soybean
Start	3033	End	3533
GI	none	Score	111
Exons	3033..3113, 3033..3104, 3083..3115, 3190..3294, 3191..3307, 3198..3308, 3393..3455, 3416..3490, 3432..3533, 3447..3521		

Seq. No.	55305	Seq. ID	OJ000323_40.0424.C11
Gene No.	115913	Strand	+
Start	105	End	3911
Name	OJ000323_40.0424.C11.o1.tc	Method	TBLASTX:Cress
Start	3036	End	3533
GI	none	Score	100
Exons	3036..3113, 3036..3113, 3190..3294, 3198..3290, 3393..3455, 3432..3533		

Seq. No.	55306	Seq. ID	OJ000323_40.0424.C12
Gene No.	115914	Strand	+
Start	1	End	1647
Name	OJ000323_40.0424.C12.o1.np	Method	AAT/NAP
Start	1	End	1647
GI	6562283	Score	446
Exons	1..303, 542..598, 685..774, 853..975, 1538..1647		
GI Descrip.	(AL132980) vacuolar sorting protein 35 homolog [Arabidopsis thaliana]		

Seq. No.	55306	Seq. ID	OJ000323_40.0424.C12
Gene No.	115914	Strand	+
Start	1	End	1647
Name	OJ000323_40.0424.C12.o1.gs	Method	GENSCAN
Start	216	End	1612
GI	none	Score	.91
Exons	216..303, 542..598, 685..774, 1538..1612		

Seq. No.	55306	Seq. ID	OJ000323_40.0424.C12
Gene No.	115914	Strand	+
Start	1	End	1647
Name	OJ000323_40.0424.C12.o1.ts	Method	TBLASTX:Soybean
Start	217	End	1582
GI	none	Score	103
Exons	217..303, 225..296, 538..582, 651..782, 685..783, 848..976,		

849..986, 850..981, 1526..1582

Seq. No.	55306	Seq. ID	OJ000323_40.0424.C12
Gene No.	115914	Strand	+
Start	1	End	1647
Name	OJ000323_40.0424.C12.o1.tm	Method	TBLASTX:Maize
Start	837	End	1615
GI	none	Score	168
Exons	837..965, 840..971, 842..973, 850..975, 1535..1615, 1535..1612, 1537..1614		

Seq. No.	55306	Seq. ID	OJ000323_40.0424.C12
Gene No.	115914	Strand	+
Start	1	End	1647
Name	OJ000323_40.0424.C12.o1.gp	Method	AAT/GAP
Start	1537	End	1647
GI	25300_1.R1084	Score	141
Exons	1537..1647		
GI Descrip.	'2435519 1.0e-123 (AF024504) similar to mouse MEM3 (GB:U47024 and S. cerevisiae vacuolar sorting protein 35 (SW;P34110) [Arabidopsis thaliana]'		

Seq. No.	55307	Seq. ID	OJ000323_40.0424.C14
Gene No.	115915	Strand	-
Start	1	End	586
Name	OJ000323_40.0424.C14.o1.np	Method	AAT/NAP
Start	1	End	476
GI	7489738	Score	204
Exons	1..266, 300..476		
GI Descrip.	gag-pol polyprotein - maize copia-like retrotransposon Sto-4 gi|4234852|gb|AAD12997.1| (AF082133) gag-pol polyprotein [Zea mays]		

Seq. No.	55307	Seq. ID	OJ000323_40.0424.C14
Gene No.	115915	Strand	-
Start	1	End	586
Name	OJ000323_40.0424.C14.o1.tm	Method	TBLASTX:Maize
Start	1	End	383
GI	none	Score	125
Exons	1..261, 3..383		

Seq. No.	55307	Seq. ID	OJ000323_40.0424.C14
Gene No.	115915	Strand	-
Start	1	End	586
Name	OJ000323_40.0424.C14.o1.gs	Method	GENSCAN
Start	61	End	497
GI	none	Score	.59
Exons	61..497		

Seq. No.	55307	Seq. ID	OJ000323_40.0424.C14
Gene No.	115915	Strand	-
Start	1	End	586
Name	OJ000323_40.0424.C14.o1.gp	Method	AAT/GAP
Start	75	End	586
GI	uC-osf1M202052c07b1	Score	1011
Exons	75..586		
GI Descrip.	'4234848 1.0e-12 (AF082131) gag-pol polyprotein [Zea mays]'		

Seq. No.	55308	Seq. ID	OJ000323_40.0424.C15
Gene No.	115916	Strand	+
Start	2114	End	2936
Name	OJ000323_40.0424.C15.o1.ts	Method	TBLASTX:Soybean
Start	2075	End	2569
GI	none	Score	304
Exons	2075..2368, 2113..2256, 2308..2367, 2377..2529, 2378..2569		

Seq. No.	55308	Seq. ID	OJ000323_40.0424.C15
Gene No.	115916	Strand	+
Start	2114	End	2936
Name	OJ000323_40.0424.C15.o1.tm	Method	TBLASTX:Maize
Start	2104	End	2578
GI	none	Score	666
Exons	2104..2274, 2105..2578, 2308..2577		

Seq. No.	55308	Seq. ID	OJ000323_40.0424.C15
Gene No.	115916	Strand	+
Start	2114	End	2936
Name	OJ000323_40.0424.C15.o1.gs	Method	GENSCAN
Start	2114	End	2863
GI	none	Score	.99
Exons	2114..2863		

Seq. No.	55308	Seq. ID	OJ000323_40.0424.C15
Gene No.	115916	Strand	+
Start	2114	End	2936
Name	OJ000323_40.0424.C15.o1.np	Method	AAT/NAP
Start	2114	End	2936
GI	5080804	Score	510
Exons	2114..2575, 2603..2778, 2913..2936		
GI Descrip.	(AC007258) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55308	Seq. ID	OJ000323_40.0424.C15
Gene No.	115916	Strand	+
Start	2114	End	2936
Name	OJ000323_40.0424.C15.o1.tc	Method	TBLASTX:Cress
Start	2114	End	2548
GI	none	Score	277
Exons	2114..2368, 2386..2514, 2387..2548		

Seq. No.	55309	Seq. ID	OJ000323_40.0424.C16
Gene No.	115917	Strand	+
Start	1	End	237
Name	OJ000323_40.0424.C16.o1.np	Method	AAT/NAP
Start	1	End	237
GI	5080804	Score	192
Exons	1..237		
GI Descrip.	(AC007258) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55309	Seq. ID	OJ000323_40.0424.C16
Gene No.	115917	Strand	+
Start	1	End	237
Name	OJ000323_40.0424.C16.o1.tm	Method	TBLASTX:Maize
Start	1	End	222
GI	none	Score	97

Exons	1..96, 3..221, 3..218, 38..220, 169..222		
Seq. No.	55309	Seq. ID	OJ000323_40.0424.C16
Gene No.	115917	Strand	+
Start	1	End	237
Name	OJ000323_40.0424.C16.o1.ts	Method	TBLASTX:Soybean
Start	18	End	221
GI	none	Score	200
Exons	18..221, 38..217		
Seq. No.	55309	Seq. ID	OJ000323_40.0424.C16
Gene No.	115917	Strand	+
Start	1	End	237
Name	OJ000323_40.0424.C16.o1.tc	Method	TBLASTX:Cress
Start	39	End	218
GI	none	Score	189
Exons	39..218, 41..205		
Seq. No.	55309	Seq. ID	OJ000323_40.0424.C16
Gene No.	115917	Strand	+
Start	1	End	237
Name	OJ000323_40.0424.C16.o1.gs	Method	GENSCAN
Start	131	End	222
GI	none	Score	.57
Exons	131..222		
Seq. No.	55310	Seq. ID	OJ000323_40.0424.C18
Gene No.	115918	Strand	-
Start	1	End	2282
Name	OJ000323_40.0424.C18.o1.gp	Method	AAT/GAP
Start	1	End	762
GI	3760772	Score	1249
Exons	1..460, 551..762		
Seq. No.	55310	Seq. ID	OJ000323_40.0424.C18
Gene No.	115918	Strand	-
Start	1	End	2282
Name	OJ000323_40.0424.C18.o2.tm	Method	TBLASTX:Maize
Start	212	End	451
GI	none	Score	43
Exons	212..235, 257..328, 263..451, 264..359, 265..447		
Seq. No.	55310	Seq. ID	OJ000323_40.0424.C18
Gene No.	115918	Strand	-
Start	1	End	2282
Name	OJ000323_40.0424.C18.o1.np	Method	AAT/NAP
Start	229	End	2282
GI	4567275	Score	312
Exons	229..431, 543..963, 1399..1540, 1630..1790, 2250..2282		
GI Descrip.	(AC006841) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	55310	Seq. ID	OJ000323_40.0424.C18
Gene No.	115918	Strand	-
Start	1	End	2282
Name	OJ000323_40.0424.C18.o1.gs	Method	GENSCAN
Start	280	End	2262
GI	none	Score	.85

Exons 280..460, 551..963, 1399..1528, 1618..1786, 2246..2262

Seq. No.	55310	Seq. ID	OJ000323_40.0424.C18
Gene No.	115918	Strand	-
Start	1	End	2282
Name	OJ000323_40.0424.C18.o1.tm	Method	TBLASTX:Maize
Start	1392	End	2282
GI	none	Score	170

Exons 1392..1517, 1394..1507, 1419..1529, 1502..1537, 1615..1785, 1616..1786, 1616..1786, 2241..2282, 2245..2280

Seq. No.	55311	Seq. ID	OJ000323_40.0424.C19
Gene No.	115919	Strand	-
Start	944	End	6242
Name	OJ000323_40.0424.C19.o2.tm	Method	TBLASTX:Maize
Start	915	End	1087
GI	none	Score	188

Exons 915..1085, 938..1084, 943..1086, 943..1086, 944..1087

Seq. No.	55311	Seq. ID	OJ000323_40.0424.C19
Gene No.	115919	Strand	-
Start	944	End	6242
Name	OJ000323_40.0424.C19.o1.gs	Method	GENSCAN
Start	944	End	6120
GI	none	Score	.61

Exons 944..1083, 1211..1344, 1541..1631, 1727..1870, 1950..2080, 2541..2577, 2654..2714, 2838..3062, 3813..3946, 4000..4105, 4198..4471, 6107..6120

Seq. No.	55311	Seq. ID	OJ000323_40.0424.C19
Gene No.	115919	Strand	-
Start	944	End	6242
Name	OJ000323_40.0424.C19.o1.np	Method	AAT/NAP
Start	944	End	2947
GI	4567275	Score	291

Exons 944..1083, 1211..1346, 1588..2080, 2541..2577, 2654..2714, 2838..2947

GI Descrip. (AC006841) hypothetical protein [Arabidopsis thaliana]

Seq. No.	55311	Seq. ID	OJ000323_40.0424.C19
Gene No.	115919	Strand	-
Start	944	End	6242
Name	OJ000323_40.0424.C19.o3.tm	Method	TBLASTX:Maize
Start	1960	End	3003
GI	none	Score	152

Exons 1960..2079, 1961..2080, 1980..2081, 2517..2579, 2540..2590, 2552..2590, 2652..2714, 2653..2712, 2655..2717, 2829..2894, 2830..2892, 2964..2999, 2965..3003

Seq. No.	55311	Seq. ID	OJ000323_40.0424.C19
Gene No.	115919	Strand	-
Start	944	End	6242
Name	OJ000323_40.0424.C19.o1.tm	Method	TBLASTX:Maize
Start	5899	End	6242
GI	none	Score	102

Exons 5899..5961, 5901..5960, 6059..6184, 6063..6185, 6085..6186, 6185..6241, 6186..6242

Seq. No.	55312	Seq. ID	OJ000323_40.0424.C22
Gene No.	115920	Strand	+
Start	175	End	308
Name	OJ000323_40.0424.C22.o1.gs	Method	GENSCAN
Start	175	End	308
GI	none	Score	.84
Exons	175..308		

Seq. No.	55313	Seq. ID	OJ000323_40.0424.C23
Gene No.	115921	Strand	-
Start	1	End	1511
Name	OJ000323_40.0424.C23.o1.gp	Method	AAT/GAP
Start	1	End	1498
GI	5002875	Score	736
Exons	1..299, 1420..1498		

Seq. No.	55313	Seq. ID	OJ000323_40.0424.C23
Gene No.	115921	Strand	-
Start	1	End	1511
Name	OJ000323_40.0424.C23.o1.np	Method	AAT/NAP
Start	1	End	1511
GI	7288013	Score	226
Exons	1..299, 1420..1511		
GI Descrip.	(AL132971) putative protein [Arabidopsis thaliana]		

Seq. No.	55313	Seq. ID	OJ000323_40.0424.C23
Gene No.	115921	Strand	-
Start	1	End	1511
Name	OJ000323_40.0424.C23.o1.gs	Method	GENSCAN
Start	11	End	1497
GI	none	Score	.61
Exons	11..299, 1420..1497		

Seq. No.	55313	Seq. ID	OJ000323_40.0424.C23
Gene No.	115921	Strand	-
Start	1	End	1511
Name	OJ000323_40.0424.C23.o1.tm	Method	TBLASTX:Maize
Start	15	End	1501
GI	none	Score	103
Exons	15..119, 15..119, 16..120, 16..120, 120..296, 121..348, 121..297, 131..301, 1420..1500, 1420..1500, 1421..1501		

Seq. No.	55314	Seq. ID	OJ000323_40.0424.C24
Gene No.	115922	Strand	+
Start	740	End	2255
Name	OJ000323_40.0424.C24.o1.gs	Method	GENSCAN
Start	740	End	2255
GI	none	Score	.56
Exons	740..802, 891..989, 1090..1132, 1277..1503, 1832..1930, 2252..2255		

Seq. No.	55314	Seq. ID	OJ000323_40.0424.C24
Gene No.	115922	Strand	+
Start	740	End	2255
Name	OJ000323_40.0424.C24.o1.gp	Method	AAT/GAP
Start	771	End	2082

GI	none	Score	1391
Exons	771..802, 891..989, 1065..1132, 1213..1525, 1832..2082		

Seq. No.	55315	Seq. ID	OJ000323_40.0424.C25
Gene No.	115923	Strand	+
Start	174	End	947
Name	OJ000323_40.0424.C25.o1.gs	Method	GENSCAN
Start	174	End	947
GI	none	Score	.91
Exons	174..284, 819..947		

Seq. No.	55316	Seq. ID	OJ000323_40.0424.C26
Gene No.	115924	Strand	-
Start	696	End	908
Name	OJ000323_40.0424.C26.o1.gs	Method	GENSCAN
Start	696	End	908
GI	none	Score	.54
Exons	696..908		

Seq. No.	55317	Seq. ID	OJ000323_40.0424.C27
Gene No.	115925	Strand	+
Start	539	End	1188
Name	OJ000323_40.0424.C27.o1.gp	Method	AAT/GAP
Start	539	End	1188
GI	none	Score	1210
Exons	539..1188		

Seq. No.	55317	Seq. ID	OJ000323_40.0424.C27
Gene No.	115925	Strand	+
Start	539	End	1188
Name	OJ000323_40.0424.C27.o1.gs	Method	GENSCAN
Start	615	End	1025
GI	none	Score	.99
Exons	615..1025		

Seq. No.	55317	Seq. ID	OJ000323_40.0424.C27
Gene No.	115926	Strand	-
Start	2942	End	7089
Name	OJ000323_40.0424.C27.o2.gs	Method	GENSCAN
Start	2942	End	6936
GI	none	Score	.75
Exons	2942..3437, 5196..5257, 5367..5487, 5568..5709, 6747..6936		

Seq. No.	55317	Seq. ID	OJ000323_40.0424.C27
Gene No.	115926	Strand	-
Start	2942	End	7089
Name	OJ000323_40.0424.C27.o2.gp	Method	AAT/GAP
Start	3902	End	7089
GI	16497_1.R1084	Score	2024
Exons	3902..4324, 5196..5257, 5367..5487, 5568..5709, 6747..7089		
GI Descrip.	'4090884 3.0e-95 (AF025333) vesicle-associated membrane protein 7B; synaptobrevin 7B [Arabidopsis thaliana]'		

Seq. No.	55317	Seq. ID	OJ000323_40.0424.C27
Gene No.	115926	Strand	-
Start	2942	End	7089
Name	OJ000323_40.0424.C27.o2.tm	Method	TBLASTX:Maize

Start	3965	End	4328
GI	none	Score	37
Exons	3965..3991, 3965..3988, 4014..4043, 4015..4044, 4122..4163, 4124..4168, 4126..4209, 4175..4207, 4185..4328, 4185..4325, 4262..4327		

Seq. No.	55317	Seq. ID	OJ000323_40.0424.C27
Gene No.	115926	Strand	-
Start	2942	End	7089
Name	OJ000323_40.0424.C27.o1.tc	Method	TBLASTX:Cress
Start	4182	End	6936
GI	none	Score	129
Exons	4182..4325, 4188..4328, 4262..4327, 5196..5240, 5234..5260, 5238..5258, 5361..5486, 5367..5486, 5368..5487, 5567..5707, 5634..5705, 6745..6936, 6746..6931		

Seq. No.	55317	Seq. ID	OJ000323_40.0424.C27
Gene No.	115926	Strand	-
Start	2942	End	7089
Name	OJ000323_40.0424.C27.o1.np	Method	AAT/NAP
Start	4184	End	6936
GI	4090884	Score	873
Exons	4184..4324, 5196..5257, 5367..5487, 5568..5709, 6747..6936		
GI Descrip.	(AF025333) vesicle-associated membrane protein 7B; synaptobrevin 7B [Arabidopsis thaliana]		

Seq. No.	55317	Seq. ID	OJ000323_40.0424.C27
Gene No.	115926	Strand	-
Start	2942	End	7089
Name	OJ000323_40.0424.C27.o1.ts	Method	TBLASTX:Soybean
Start	4185	End	6936
GI	none	Score	138
Exons	4185..4328, 4188..4319, 4190..4327, 5196..5240, 5234..5260, 5238..5258, 5367..5483, 5368..5481, 5567..5707, 5634..5705, 6745..6936, 6746..6931		

Seq. No.	55317	Seq. ID	OJ000323_40.0424.C27
Gene No.	115926	Strand	-
Start	2942	End	7089
Name	OJ000323_40.0424.C27.o1.tm	Method	TBLASTX:Maize
Start	5193	End	6936
GI	none	Score	36
Exons	5193..5240, 5234..5260, 5238..5258, 5367..5483, 5368..5484, 5567..5707, 5634..5708, 6745..6936, 6746..6931		

Seq. No.	55318	Seq. ID	OJ000323_40.0424.C28
Gene No.	115927	Strand	+
Start	379	End	858
Name	OJ000323_40.0424.C28.o1.gs	Method	GENSCAN
Start	379	End	858
GI	none	Score	.79
Exons	379..453, 547..858		

Seq. No.	55318	Seq. ID	OJ000323_40.0424.C28
Gene No.	115928	Strand	+
Start	3526	End	5959
Name	OJ000323_40.0424.C28.o3.gs	Method	GENSCAN

Start	3526	End	5014
GI	none	Score	.86
Exons	3526..3699, 4130..4198, 4286..4357, 4880..5014		

Seq. No.	55318	Seq. ID	OJ000323_40.0424.C28
Gene No.	115928	Strand	+
Start	3526	End	5959
Name	OJ000323_40.0424.C28.o1.np	Method	AAT/NAP
Start	3583	End	5959
GI	6520231	Score	274
Exons	3583..3750, 3928..3993, 4130..4198, 4286..4428, 5940..5959		
GI Descrip.	(AB028232) helix-loop-helix protein homolog [Arabidopsis thaliana]		

Seq. No.	55318	Seq. ID	OJ000323_40.0424.C28
Gene No.	115929	Strand	-
Start	1267	End	2254
Name	OJ000323_40.0424.C28.o2.gs	Method	GENSCAN
Start	1267	End	2254
GI	none	Score	.96
Exons	1267..1675, 2109..2254		

Seq. No.	55318	Seq. ID	OJ000323_40.0424.C28
Gene No.	115930	Strand	-
Start	5369	End	5489
Name	OJ000323_40.0424.C28.o1.tm	Method	TBLASTX:Maize
Start	3682	End	5031
GI	none	Score	118
Exons	3682..3750, 3684..3749, 3688..3750, 3690..3752, 3902..3994, 3925..3996, 3928..3996, 4127..4225, 4127..4198, 4274..4357, 4274..4363, 4291..4368, 4880..5017, 4882..5016, 4888..5031		

Seq. No.	55318	Seq. ID	OJ000323_40.0424.C28
Gene No.	115930	Strand	-
Start	5369	End	5489
Name	OJ000323_40.0424.C28.o1.tw	Method	TBLASTX:Wheat
Start	3713	End	5016
GI	none	Score	60
Exons	3713..3751, 3715..3750, 3925..3996, 3926..3994, 3928..3996, 4127..4225, 4127..4198, 4280..4327, 4298..4357, 4313..4357, 4878..5009, 4880..5014, 4885..5016, 4894..5013, 4919..5014		

Seq. No.	55318	Seq. ID	OJ000323_40.0424.C28
Gene No.	115930	Strand	-
Start	5369	End	5489
Name	OJ000323_40.0424.C28.o4.gs	Method	GENSCAN
Start	5369	End	5489
GI	none	Score	.88
Exons	5369..5489		

Seq. No.	55319	Seq. ID	OJ000323_40.0424.C29
Gene No.	115931	Strand	+
Start	155	End	2333
Name	OJ000323_40.0424.C29.o1.gs	Method	GENSCAN
Start	155	End	2333
GI	none	Score	.76
Exons	155..211, 383..493, 980..1066, 1233..1355, 1960..2066,		

2162..2333

Seq. No.	55320	Seq. ID	OJ000323_40.0424.C30
Gene No.	115932	Strand	-
Start	1676	End	4499
Name	OJ000323_40.0424.C30.o1.gs	Method	GENSCAN
Start	1676	End	4499
GI	none	Score	.45
Exons	1676..1925, 2717..2824, 3138..3246, 3260..3388, 3840..3910, 4405..4499		

Seq. No.	55320	Seq. ID	OJ000323_40.0424.C30
Gene No.	115932	Strand	-
Start	1676	End	4499
Name	OJ000323_40.0424.C30.o1.gp	Method	AAT/GAP
Start	2373	End	2951
GI	none	Score	823
Exons	2373..2557, 2669..2951		

Seq. No.	55321	Seq. ID	OJ000323_40.0424.C31
Gene No.	115933	Strand	+
Start	3476	End	6579
Name	OJ000323_40.0424.C31.o2.gs	Method	GENSCAN
Start	3476	End	6579
GI	none	Score	.77
Exons	3476..3572, 4469..4517, 5520..5565, 5913..6065, 6487..6579		

Seq. No.	55321	Seq. ID	OJ000323_40.0424.C31
Gene No.	115934	Strand	-
Start	7884	End	10852
Name	OJ000323_40.0424.C31.o2.tm	Method	TBLASTX:Maize
Start	1104	End	1439
GI	none	Score	63
Exons	1104..1190, 1138..1191, 1224..1418, 1224..1439		

Seq. No.	55321	Seq. ID	OJ000323_40.0424.C31
Gene No.	115934	Strand	-
Start	7884	End	10852
Name	OJ000323_40.0424.C31.o1.tw	Method	TBLASTX:Wheat
Start	1743	End	2030
GI	none	Score	144
Exons	1743..2030, 1752..1973, 1765..2025		

Seq. No.	55321	Seq. ID	OJ000323_40.0424.C31
Gene No.	115934	Strand	-
Start	7884	End	10852
Name	OJ000323_40.0424.C31.o1.np	Method	AAT/NAP
Start	7877	End	10852
GI	6358814	Score	819
Exons	7877..8506, 8534..8694, 8736..9074, 10799..10852		
GI Descrip.	(AC010675) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	55321	Seq. ID	OJ000323_40.0424.C31
Gene No.	115934	Strand	-
Start	7884	End	10852
Name	OJ000323_40.0424.C31.o3.gs	Method	GENSCAN
Start	7884	End	9191

GI	none	Score	1
Exons	7884..9191		
Seq. No.	55321	Seq. ID	OJ000323_40.0424.C31
Gene No.	115934	Strand	-
Start	7884	End	10852
Name	OJ000323_40.0424.C31.o1.tm	Method	TBLASTX:Maize
Start	7920	End	8870
GI	none	Score	133
Exons	7920..8012, 8061..8276, 8062..8280, 8324..8413, 8325..8426, 8331..8429, 8541..8600, 8545..8601, 8616..8684, 8766..8870		
Seq. No.	55321	Seq. ID	OJ000323_40.0424.C31
Gene No.	115934	Strand	-
Start	7884	End	10852
Name	OJ000323_40.0424.C31.o1.tc	Method	TBLASTX:Cress
Start	7923	End	8870
GI	none	Score	63
Exons	7923..8021, 8043..8276, 8328..8492, 8541..8684, 8554..8679, 8772..8870		
Seq. No.	55321	Seq. ID	OJ000323_40.0424.C31
Gene No.	115934	Strand	-
Start	7884	End	10852
Name	OJ000323_40.0424.C31.o2.ts	Method	TBLASTX:Soybean
Start	7923	End	8280
GI	none	Score	102
Exons	7923..8039, 8061..8276, 8062..8280		
Seq. No.	55321	Seq. ID	OJ000323_40.0424.C31
Gene No.	115934	Strand	-
Start	7884	End	10852
Name	OJ000323_40.0424.C31.o2.tw	Method	TBLASTX:Wheat
Start	8136	End	8591
GI	none	Score	68
Exons	8136..8276, 8191..8277, 8295..8483, 8313..8411, 8544..8591		
Seq. No.	55321	Seq. ID	OJ000323_40.0424.C31
Gene No.	115934	Strand	-
Start	7884	End	10852
Name	OJ000323_40.0424.C31.o1.ts	Method	TBLASTX:Soybean
Start	8343	End	8870
GI	none	Score	111
Exons	8343..8492, 8344..8478, 8529..8687, 8530..8688, 8766..8870, 8791..8868		
Seq. No.	55322	Seq. ID	OJ000323_40.0424.C32
Gene No.	115935	Strand	-
Start	1	End	233
Name	OJ000323_40.0424.C32.o1.gp	Method	AAT/GAP
Start	1	End	192
GI	62018_1.R1084	Score	341
Exons	1..192		
GI Descrip.	'2435519 5.0e-34 (AF024504) similar to mouse MEM3 (GB:U47024 and S. cerevisiae vacuolar sorting protein 35 (SW;P34110) [Arabidopsis thaliana]'		

Seq. No.	55322	Seq. ID	OJ000323_40.0424.C32
Gene No.	115935	Strand	-
Start	1	End	233
Name	OJ000323_40.0424.C32.o1.gs	Method	GENSCAN
Start	18	End	233
GI	none	Score	.97
Exons	18..233		

Seq. No.	55322	Seq. ID	OJ000323_40.0424.C32
Gene No.	115936	Strand	-
Start	659	End	1082
Name	OJ000323_40.0424.C32.o2.gs	Method	GENSCAN
Start	659	End	1082
GI	none	Score	.42
Exons	659..673, 717..806, 932..1082		

Seq. No.	55323	Seq. ID	OJ000323_40.0424.C33
Gene No.	115937	Strand	+
Start	1	End	120
Name	OJ000323_40.0424.C33.o1.gp	Method	AAT/GAP
Start	1	End	120
GI	uC-osroM202040f09b1	Score	181
Exons	1..120		
GI Descrip.	'4680488/gb|AF119222.1|AF119222 5.0e-41 Oryza sativa BAC clone 1.H19, complete sequence'		

Seq. No.	55323	Seq. ID	OJ000323_40.0424.C33
Gene No.	115938	Strand	+
Start	553	End	1654
Name	OJ000323_40.0424.C33.o1.gs	Method	GENSCAN
Start	553	End	1654
GI	none	Score	.94
Exons	553..558, 1268..1654		

Seq. No.	55323	Seq. ID	OJ000323_40.0424.C33
Gene No.	115939	Strand	+
Start	1841	End	2954
Name	OJ000323_40.0424.C33.o1.np	Method	AAT/NAP
Start	1841	End	2954
GI	1084461	Score	162
Exons	1841..1946, 2291..2487, 2898..2954		
GI Descrip.	RCc3 protein - rice gi|786132 (L27208) RCc3 [Oryza sativa]		

Seq. No.	55323	Seq. ID	OJ000323_40.0424.C33
Gene No.	115939	Strand	+
Start	1841	End	2954
Name	OJ000323_40.0424.C33.o2.gs	Method	GENSCAN
Start	2260	End	2718
GI	none	Score	.96
Exons	2260..2718		

Seq. No.	55324	Seq. ID	OJ000323_40.0424.C34
Gene No.	115940	Strand	+
Start	1	End	2019
Name	OJ000323_40.0424.C34.o2.np	Method	AAT/NAP
Start	1	End	2019
GI	5042454	Score	237

Exons	1..25, 1266..1301, 1526..1698, 1966..2019		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		
Seq. No.	55324	Seq. ID	OJ000323_40.0424.C34
Gene No.	115940	Strand	+
Start	1	End	2019
Name	OJ000323_40.0424.C34.o1.gs	Method	GENSCAN
Start	514	End	1698
GI	none	Score	.53
Exons	514..641, 1548..1698		
Seq. No.	55324	Seq. ID	OJ000323_40.0424.C34
Gene No.	115941	Strand	-
Start	408	End	2113
Name	OJ000323_40.0424.C34.o1.np	Method	AAT/NAP
Start	408	End	2113
GI	6815062	Score	301
Exons	408..519, 712..832, 1078..1220, 2071..2113		
GI Descrip.	(AP001080) Similar to Arabidopsis thaliana chromosome II BAC F16P2 genomic sequence;mudrA like protein (AC004561) [Oryza sativa]		
Seq. No.	55325	Seq. ID	OJ000323_40.0424.C35
Gene No.	115942	Strand	-
Start	1	End	2378
Name	OJ000323_40.0424.C35.o1.np	Method	AAT/NAP
Start	1	End	2378
GI	6815062	Score	2594
Exons	1..156, 238..588, 632..837, 930..1121, 1198..1585, 1679..1958, 2231..2378		
GI Descrip.	(AP001080) Similar to Arabidopsis thaliana chromosome II BAC F16P2 genomic sequence;mudrA like protein (AC004561) [Oryza sativa]		
Seq. No.	55325	Seq. ID	OJ000323_40.0424.C35
Gene No.	115942	Strand	-
Start	1	End	2378
Name	OJ000323_40.0424.C35.o1.gs	Method	GENSCAN
Start	59	End	2303
GI	none	Score	.58
Exons	59..156, 276..341, 434..588, 632..837, 930..1121, 1198..1458, 1521..1594, 1689..1958, 2231..2303		
Seq. No.	55325	Seq. ID	OJ000323_40.0424.C35
Gene No.	115942	Strand	-
Start	1	End	2378
Name	OJ000323_40.0424.C35.o1.tm	Method	TBLASTX:Maize
Start	238	End	1366
GI	none	Score	67
Exons	238..363, 393..539, 631..657, 664..831, 664..831, 912..989, 1062..1133, 1195..1365, 1202..1366		
Seq. No.	55325	Seq. ID	OJ000323_40.0424.C35
Gene No.	115942	Strand	-
Start	1	End	2378
Name	OJ000323_40.0424.C35.o2.tm	Method	TBLASTX:Maize
Start	1369	End	1851

GI	none	Score	57
Exons	1369..1464, 1373..1468, 1474..1503, 1498..1581, 1666..1851, 1673..1849		

Seq. No.	55326	Seq. ID	OJ000323_40.0424.C36
Gene No.	115943	Strand	-
Start	1	End	1178
Name	OJ000323_40.0424.C36.o1.np	Method	AAT/NAP
Start	1	End	1178
GI	6815062	Score	2042
Exons	1..1178		
GI Descrip.	(AP001080) Similar to Arabidopsis thaliana chromosome II BAC F16P2 genomic sequence;mudrA like protein (AC004561) [Oryza sativa]		

Seq. No.	55326	Seq. ID	OJ000323_40.0424.C36
Gene No.	115943	Strand	-
Start	1	End	1178
Name	OJ000323_40.0424.C36.o1.tm	Method	TBLASTX:Maize
Start	594	End	1137
GI	none	Score	39
Exons	594..959, 614..637, 670..960, 978..1133, 1012..1137		

Seq. No.	55327	Seq. ID	OJ000323_40.0424.C39
Gene No.	115944	Strand	+
Start	314	End	492
Name	OJ000323_40.0424.C39.o1.gs	Method	GENSCAN
Start	314	End	492
GI	none	Score	.67
Exons	314..492		

Seq. No.	55328	Seq. ID	OJ000323_40.0424.C43
Gene No.	115945	Strand	-
Start	16	End	657
Name	OJ000323_40.0424.C43.o1.gs	Method	GENSCAN
Start	16	End	615
GI	none	Score	.77
Exons	16..615		

Seq. No.	55328	Seq. ID	OJ000323_40.0424.C43
Gene No.	115945	Strand	-
Start	16	End	657
Name	OJ000323_40.0424.C43.o1.gp	Method	AAT/GAP
Start	499	End	657
GI	2312424	Score	287
Exons	499..657		

Seq. No.	55329	Seq. ID	OJ000323_40.0424.C44
Gene No.	115946	Strand	+
Start	623	End	1162
Name	OJ000323_40.0424.C44.o1.gs	Method	GENSCAN
Start	623	End	1162
GI	none	Score	.55
Exons	623..1162		

Seq. No.	55329	Seq. ID	OJ000323_40.0424.C44
Gene No.	115947	Strand	-

Start	1	End	2371
Name	OJ000323_40.0424.C44.o1.np	Method	AAT/NAP
Start	1	End	2122
GI	7487960	Score	211
Exons	1..69, 563..772, 2100..2122		
GI Descrip.	multidrug export protein homolog T8K22.11 - Arabidopsis thaliana gi|3184280|gb|AAC18927.1| (AC004136) putative transport protein [Arabidopsis thaliana]		

Seq. No.	55329	Seq. ID	OJ000323_40.0424.C44
Gene No.	115947	Strand	-
Start	1	End	2371
Name	OJ000323_40.0424.C44.o1.gp	Method	AAT/GAP
Start	852	End	1265
GI	2428002	Score	731
Exons	852..1265		

Seq. No.	55329	Seq. ID	OJ000323_40.0424.C44
Gene No.	115947	Strand	-
Start	1	End	2371
Name	OJ000323_40.0424.C44.o2.gp	Method	AAT/GAP
Start	1618	End	1967
GI	57441_1.R1084	Score	632
Exons	1618..1967		
GI Descrip.	'2129752/pir||S58123 5.0e-28 thioredoxin - Arabidopsis thaliana >gi_992964_emb_CAA84612_ (Z35475) thioredoxin [Arabidopsis thaliana]'		

Seq. No.	55329	Seq. ID	OJ000323_40.0424.C44
Gene No.	115947	Strand	-
Start	1	End	2371
Name	OJ000323_40.0424.C44.o2.np	Method	AAT/NAP
Start	1789	End	2371
GI	2982247	Score	111
Exons	1789..1962, 2311..2371		
GI Descrip.	(AF051206) probable thioredoxin H [Picea mariana]		

Seq. No.	55329	Seq. ID	OJ000323_40.0424.C44
Gene No.	115947	Strand	-
Start	1	End	2371
Name	OJ000323_40.0424.C44.o1.tm	Method	TBLASTX:Maize
Start	1796	End	1963
GI	none	Score	196
Exons	1796..1963, 1807..1959, 1811..1963		

Seq. No.	55330	Seq. ID	OJ000323_40.0424.C45
Gene No.	115948	Strand	-
Start	166	End	2107
Name	OJ000323_40.0424.C45.o1.gs	Method	GENSCAN
Start	166	End	901
GI	none	Score	.71
Exons	166..321, 759..901		

Seq. No.	55330	Seq. ID	OJ000323_40.0424.C45
Gene No.	115948	Strand	-
Start	166	End	2107
Name	OJ000323_40.0424.C45.o1.gp	Method	AAT/GAP

Start	376	End	2107
GI	31068_1.R1084	Score	1238
Exons	376..901, 1977..2107		
GI Descrip.	'5453694/ref|NP_006328.1|pICP22BP| 4.0e-14 cell cycle-regulated factor (78 kDa) >gi_3201964 (AF068007) cell cycle-regulated factor p78 [Homo sapiens]'		

Seq. No.	55330	Seq. ID	OJ000323_40.0424.C45
Gene No.	115948	Strand	-
Start	166	End	2107
Name	OJ000323_40.0424.C45.o1.np	Method	AAT/NAP
Start	1899	End	2105
GI	7288013	Score	74
Exons	1899..2105		
GI Descrip.	(AL132971) putative protein [Arabidopsis thaliana]		

Seq. No.	55331	Seq. ID	OJ000313_34.0419.C3
Gene No.	115949	Strand	+
Start	850	End	2431
Name	OJ000313_34.0419.C3.o1.gs	Method	GENSCAN
Start	850	End	2431
GI	none	Score	.76
Exons	850..982, 1701..1871, 2367..2431		

Seq. No.	55331	Seq. ID	OJ000313_34.0419.C3
Gene No.	115950	Strand	-
Start	809	End	2866
Name	OJ000313_34.0419.C3.o1.np	Method	AAT/NAP
Start	809	End	2866
GI	4056454	Score	107
Exons	809..989, 1609..2088, 2742..2866		
GI Descrip.	(AC005990) Contains repeated region with similarity to gb|U43627 extensin (atExt1) gene from Arabidopsis thaliana. ESTs gb|Z34165 and gb|Z18788 come from this gene. [Arabidopsis thaliana]		

Seq. No.	55332	Seq. ID	OJ000313_34.0419.C13
Gene No.	115951	Strand	+
Start	1	End	284
Name	OJ000313_34.0419.C13.o1.gp	Method	AAT/GAP
Start	1	End	284
GI	426253	Score	528
Exons	1..284		

Seq. No.	55332	Seq. ID	OJ000313_34.0419.C13
Gene No.	115952	Strand	+
Start	426	End	3876
Name	OJ000313_34.0419.C13.o1.gs	Method	GENSCAN
Start	426	End	2855
GI	none	Score	.76
Exons	426..517, 2441..2535, 2677..2855		

Seq. No.	55332	Seq. ID	OJ000313_34.0419.C13
Gene No.	115952	Strand	+
Start	426	End	3876
Name	OJ000313_34.0419.C13.o2.gp	Method	AAT/GAP
Start	2381	End	3876

GI	16018_1.R1084	Score	815
Exons	2381..2535, 2677..2851, 3773..3876		
GI Descrip.	'1808687/emb|Y10784|SSY10784 1.0e-40 S.stapfianus pSD.13 mRNA'		

Seq. No.	55332	Seq. ID	OJ000313_34.0419.C13
Gene No.	115953	Strand	-
Start	3035	End	3814
Name	OJ000313_34.0419.C13.o2.gs	Method	GENSCAN
Start	3035	End	3814
GI	none	Score	.63
Exons	3035..3270, 3715..3814		

Seq. No.	55333	Seq. ID	OJ000313_34.0419.C19
Gene No.	115954	Strand	-
Start	100	End	953
Name	OJ000313_34.0419.C19.o1.gs	Method	GENSCAN
Start	100	End	953
GI	none	Score	.84
Exons	100..234, 885..953		

Seq. No.	55334	Seq. ID	OJ000313_34.0419.C20
Gene No.	115955	Strand	-
Start	349	End	2567
Name	OJ000313_34.0419.C20.o1.gs	Method	GENSCAN
Start	349	End	2419
GI	none	Score	.92
Exons	349..1146, 1247..2419		

Seq. No.	55334	Seq. ID	OJ000313_34.0419.C20
Gene No.	115955	Strand	-
Start	349	End	2567
Name	OJ000313_34.0419.C20.o1.ts	Method	TBLASTX:Soybean
Start	970	End	1396
GI	none	Score	107
Exons	970..1143, 1253..1396		

Seq. No.	55334	Seq. ID	OJ000313_34.0419.C20
Gene No.	115955	Strand	-
Start	349	End	2567
Name	OJ000313_34.0419.C20.o2.tm	Method	TBLASTX:Maize
Start	1000	End	1399
GI	none	Score	134
Exons	1000..1152, 1001..1147, 1250..1399		

Seq. No.	55334	Seq. ID	OJ000313_34.0419.C20
Gene No.	115955	Strand	-
Start	349	End	2567
Name	OJ000313_34.0419.C20.o1.tm	Method	TBLASTX:Maize
Start	2180	End	2567
GI	none	Score	47
Exons	2180..2221, 2180..2221, 2217..2339, 2225..2356, 2366..2422, 2382..2420, 2514..2567, 2514..2564		

Seq. No.	55335	Seq. ID	OJ000313_34.0419.C22
Gene No.	115956	Strand	+
Start	244	End	806
Name	OJ000313_34.0419.C22.o1.gs	Method	GENSCAN

Start	244	End	806
GI	none	Score	.87
Exons	244..321, 576..806		

Seq. No.	55335	Seq. ID	OJ000313_34.0419.C22
Gene No.	115957	Strand	+
Start	1150	End	5713
Name	OJ000313_34.0419.C22.o1.np	Method	AAT/NAP
Start	1150	End	5680
GI	3935184	Score	287
Exons	1150..1193, 4673..5680		
GI Descrip.	(AC004557) F17L21.27 [Arabidopsis thaliana]		

Seq. No.	55335	Seq. ID	OJ000313_34.0419.C22
Gene No.	115957	Strand	+
Start	1150	End	5713
Name	OJ000313_34.0419.C22.o3.gs	Method	GENSCAN
Start	4682	End	5713
GI	none	Score	.78
Exons	4682..5713		

Seq. No.	55335	Seq. ID	OJ000313_34.0419.C22
Gene No.	115958	Strand	-
Start	2456	End	3192
Name	OJ000313_34.0419.C22.o2.gs	Method	GENSCAN
Start	2456	End	3192
GI	none	Score	.69
Exons	2456..2502, 2757..2865, 3118..3192		

Seq. No.	55335	Seq. ID	OJ000313_34.0419.C22
Gene No.	115959	Strand	
Start	5207	End	5676
Name	OJ000313_34.0419.C22.o1.tm	Method	TBLASTX:Maize
Start	5207	End	5676
GI	none	Score	55
Exons	5207..5254, 5327..5461, 5342..5461, 5344..5466, 5529..5573, 5530..5622, 5539..5676, 5540..5668		

Seq. No.	55336	Seq. ID	OJ000313_34.0419.C26
Gene No.	115960	Strand	+
Start	633	End	737
Name	OJ000313_34.0419.C26.o1.gs	Method	GENSCAN
Start	633	End	737
GI	none	Score	.61
Exons	633..737		

Seq. No.	55337	Seq. ID	OJ000313_34.0419.C27
Gene No.	115961	Strand	+
Start	110	End	2755
Name	OJ000313_34.0419.C27.o1.tm	Method	TBLASTX:Maize
Start	103	End	2755
GI	none	Score	286
Exons	103..243, 731..991, 731..1123, 750..1169, 767..1009, 846..986, 851..976, 890..1174, 891..1280, 927..1139, 927..1241, 980..1108, 1007..1174, 1011..1175, 1014..1454, 1059..1427, 1154..1204, 1203..1286, 1215..1292, 1217..1291, 1284..1490, 1296..1466, 1364..1462, 1364..1459, 1380..1460, 1381..1440, 1383..1460,		

1384..1476, 2495..2539, 2528..2590, 2548..2598, 2726..2755

Seq. No.	55337	Seq. ID	OJ000313_34.0419.C27
Gene No.	115961	Strand	+
Start	110	End	2755
Name	OJ000313_34.0419.C27.o1.gp	Method	AAT/GAP
Start	110	End	610
GI	none	Score	912
Exons	110..610		

Seq. No.	55337	Seq. ID	OJ000313_34.0419.C27
Gene No.	115961	Strand	+
Start	110	End	2755
Name	OJ000313_34.0419.C27.o1.gs	Method	GENSCAN
Start	156	End	2586
GI	none	Score	.8
Exons	156..1466, 2498..2586		

Seq. No.	55337	Seq. ID	OJ000313_34.0419.C27
Gene No.	115961	Strand	+
Start	110	End	2755
Name	OJ000313_34.0419.C27.o1.np	Method	AAT/NAP
Start	398	End	2541
GI	6692260	Score	609
Exons	398..563, 636..1466, 2498..2541		
GI Descrip.	(AC010870) unknown protein [Arabidopsis thaliana]		

Seq. No.	55337	Seq. ID	OJ000313_34.0419.C27
Gene No.	115961	Strand	+
Start	110	End	2755
Name	OJ000313_34.0419.C27.o1.ts	Method	TBLASTX:Soybean
Start	761	End	1490
GI	none	Score	197
Exons	761..1105, 774..1241, 777..1121, 885..1022, 894..1490, 896..1318, 1011..1133, 1086..1487		

Seq. No.	55337	Seq. ID	OJ000313_34.0419.C27
Gene No.	115961	Strand	+
Start	110	End	2755
Name	OJ000313_34.0419.C27.o1.tc	Method	TBLASTX:Cress
Start	777	End	1466
GI	none	Score	164
Exons	777..1124, 786..1241, 795..884, 881..1423, 897..1466		

Seq. No.	55337	Seq. ID	OJ000313_34.0419.C27
Gene No.	115961	Strand	+
Start	110	End	2755
Name	OJ000313_34.0419.C27.o2.gp	Method	AAT/GAP
Start	848	End	2754
GI	12078_1.R1084	Score	1685
Exons	848..1466, 2498..2754		
GI Descrip.	'2245005/emb|CAB10425.1| 2.0e-49 (Z97341) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	55338	Seq. ID	OJ000313_34.0419.C30
Gene No.	115962	Strand	-
Start	182	End	308

Name	OJ000313_34.0419.C30.o1.gs	Method	GENSCAN
Start	182	End	308
GI	none	Score	.56
Exons	182..308		

Seq. No.	55339	Seq. ID	OJ000313_34.0419.C32
Gene No.	115963	Strand	-
Start	289	End	1259
Name	OJ000313_34.0419.C32.o1.gs	Method	GENSCAN
Start	289	End	1259
GI	none	Score	.45
Exons	289..444, 517..554, 790..869, 1072..1259		

Seq. No.	55340	Seq. ID	OJ000313_34.0419.C33
Gene No.	115964	Strand	+
Start	210	End	463
Name	OJ000313_34.0419.C33.o1.np	Method	AAT/NAP
Start	210	End	463
GI	6907106	Score	183
Exons	210..463		
GI Descrip.	(AP001129) EST AU068291(C12960) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	55340	Seq. ID	OJ000313_34.0419.C33
Gene No.	115965	Strand	-
Start	118	End	1731
Name	OJ000313_34.0419.C33.o1.gs	Method	GENSCAN
Start	118	End	1731
GI	none	Score	.66
Exons	118..480, 593..760, 1669..1731		

Seq. No.	55341	Seq. ID	OJ000313_34.0419.C34
Gene No.	115966	Strand	+
Start	512	End	3436
Name	OJ000313_34.0419.C34.o1.gs	Method	GENSCAN
Start	512	End	3436
GI	none	Score	.83
Exons	512..625, 1188..1247, 1741..3050, 3319..3436		

Seq. No.	55341	Seq. ID	OJ000313_34.0419.C34
Gene No.	115966	Strand	+
Start	512	End	3436
Name	OJ000313_34.0419.C34.o1.gp	Method	AAT/GAP
Start	1092	End	2141
GI	none	Score	1065
Exons	1092..1247, 1741..2141		

Seq. No.	55341	Seq. ID	OJ000313_34.0419.C34
Gene No.	115967	Strand	-
Start	2492	End	3302
Name	OJ000313_34.0419.C34.o1.ts	Method	TBLASTX:Soybean
Start	1835	End	2443
GI	none	Score	214
Exons	1835..2035, 1843..1914, 1957..1998, 2015..2131, 2036..2152, 2138..2296, 2158..2277, 2333..2443, 2335..2424		

Seq. No.	55341	Seq. ID	OJ000313_34.0419.C34

Gene No.	115967	Strand	-
Start	2492	End	3302
Name	OJ000313_34.0419.C34.o1.tc	Method	TBLASTX:Cress
Start	1840	End	2278
GI	none	Score	117
Exons	1840..1926, 1841..1942, 1958..2026, 2033..2152, 2038..2091, 2138..2278		

Seq. No.	55341	Seq. ID	OJ000313_34.0419.C34
Gene No.	115967	Strand	-
Start	2492	End	3302
Name	OJ000313_34.0419.C34.o1.tm	Method	TBLASTX:Maize
Start	1897	End	2320
GI	none	Score	602
Exons	1897..2283, 1898..2320		

Seq. No.	55341	Seq. ID	OJ000313_34.0419.C34
Gene No.	115967	Strand	-
Start	2492	End	3302
Name	OJ000313_34.0419.C34.o2.tm	Method	TBLASTX:Maize
Start	2326	End	2613
GI	none	Score	196
Exons	2326..2517, 2327..2470, 2453..2575, 2497..2613, 2536..2589		

Seq. No.	55341	Seq. ID	OJ000313_34.0419.C34
Gene No.	115967	Strand	-
Start	2492	End	3302
Name	OJ000313_34.0419.C34.o2.gp	Method	AAT/GAP
Start	2492	End	3302
GI	none	Score	1585
Exons	2492..3302		

Seq. No.	55341	Seq. ID	OJ000313_34.0419.C34
Gene No.	115967	Strand	-
Start	2492	End	3302
Name	OJ000313_34.0419.C34.o3.tm	Method	TBLASTX:Maize
Start	2803	End	3103
GI	none	Score	166
Exons	2803..2913, 2804..2935, 3062..3103		

Seq. No.	55342	Seq. ID	OJ000313_34.0419.C35
Gene No.	115968	Strand	-
Start	83	End	730
Name	OJ000313_34.0419.C35.o1.gs	Method	GENSCAN
Start	83	End	730
GI	none	Score	.6
Exons	83..191, 711..730		

Seq. No.	55343	Seq. ID	OJ000313_34.0419.C44
Gene No.	115969	Strand	-
Start	1	End	706
Name	OJ000313_34.0419.C44.o1.np	Method	AAT/NAP
Start	1	End	706
GI	7513472	Score	73
Exons	1..153, 238..289, 469..599, 672..706		
GI Descrip.	actin-depolymerizing protein N-WASP, brain - bovine gi|1644232|dbj|BAA11082.1| (D67066) N-WASP [Bos taurus]		

Seq. No.	55343	Seq. ID	OJ000313_34.0419.C44
Gene No.	115969	Strand	-
Start	1	End	706
Name	OJ000313_34.0419.C44.o1.gs	Method	GENSCAN
Start	80	End	217
GI	none	Score	.78
Exons	80..217		

Seq. No.	55344	Seq. ID	OJ000313_34.0419.C45
Gene No.	115970	Strand	+
Start	754	End	834
Name	OJ000313_34.0419.C45.o1.gs	Method	GENSCAN
Start	754	End	834
GI	none	Score	.82
Exons	754..834		

Seq. No.	55344	Seq. ID	OJ000313_34.0419.C45
Gene No.	115971	Strand	-
Start	244	End	328
Name	OJ000313_34.0419.C45.o1.np	Method	AAT/NAP
Start	244	End	328
GI	6721547	Score	93
Exons	244..328		
GI Descrip.	(AP001073) Similar to Oryza sativa gene for Pib. (AB013448)		

Seq. No.	55345	Seq. ID	OJ000313_34.0419.C48
Gene No.	115972	Strand	+
Start	233	End	1293
Name	OJ000313_34.0419.C48.o1.gs	Method	GENSCAN
Start	233	End	1293
GI	none	Score	.71
Exons	233..382, 731..806, 1030..1221, 1226..1293		

Seq. No.	55345	Seq. ID	OJ000313_34.0419.C48
Gene No.	115973	Strand	+
Start	1969	End	3875
Name	OJ000313_34.0419.C48.o1.np	Method	AAT/NAP
Start	1969	End	3875
GI	7339707	Score	92
Exons	1969..2028, 2203..2481, 2742..3381, 3535..3624, 3717..3875		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	55345	Seq. ID	OJ000313_34.0419.C48
Gene No.	115974	Strand	-
Start	1558	End	3568
Name	OJ000313_34.0419.C48.o2.gs	Method	GENSCAN
Start	1558	End	3568
GI	none	Score	.81
Exons	1558..1675, 1840..1900, 2253..2380, 2796..3366, 3386..3568		

Seq. No.	55346	Seq. ID	OJ000313_34.0419.C49
Gene No.	115975	Strand	+
Start	141	End	503
Name	OJ000313_34.0419.C49.o1.gs	Method	GENSCAN
Start	141	End	503
GI	none	Score	.98

Exons	141..274, 394..503		
Seq. No.	55347	Seq. ID	OJ000313_34.0419.C53
Gene No.	115976	Strand	+
Start	1	End	678
Name	OJ000313_34.0419.C53.o1.np	Method	AAT/NAP
Start	1	End	657
GI	4680203	Score	608
Exons	1..657		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		
Seq. No.	55347	Seq. ID	OJ000313_34.0419.C53
Gene No.	115976	Strand	+
Start	1	End	678
Name	OJ000313_34.0419.C53.o1.gs	Method	GENSCAN
Start	57	End	678
GI	none	Score	.94
Exons	57..678		
Seq. No.	55347	Seq. ID	OJ000313_34.0419.C53
Gene No.	115977	Strand	-
Start	297	End	741
Name	OJ000313_34.0419.C53.o1.gp	Method	AAT/GAP
Start	297	End	741
GI	LIB3431-028-P1-N1-A10	Score	754
Exons	297..643, 671..741		
GI Descrip.	'4680203/gb|AAD27566.1|AF114171_7 3.0e-33 (AF114171) TNP2-like protein [Sorghum bicolor]'		
Seq. No.	55347	Seq. ID	OJ000313_34.0419.C53
Gene No.	115978	Strand	-
Start	1615	End	2339
Name	OJ000313_34.0419.C53.o1.tw	Method	TBLASTX:Wheat
Start	9	End	597
GI	none	Score	154
Exons	9..188, 10..204, 10..189, 197..238, 198..242, 199..243, 246..341, 250..309, 288..428, 289..429, 442..522, 511..597		
Seq. No.	55347	Seq. ID	OJ000313_34.0419.C53
Gene No.	115978	Strand	-
Start	1615	End	2339
Name	OJ000313_34.0419.C53.o2.gs	Method	GENSCAN
Start	1615	End	2339
GI	none	Score	1
Exons	1615..2139, 2179..2339		
Seq. No.	55348	Seq. ID	OJ000323_36.0419.C1
Gene No.	115979	Strand	+
Start	1	End	610
Name	OJ000323_36.0419.C1.o1.np	Method	AAT/NAP
Start	1	End	607
GI	4210332	Score	530
Exons	1..58, 148..342, 419..607		
GI Descrip.	(AJ223803) 2-oxoglutarate dehydrogenase E2 subunit [Arabidopsis thaliana]		
Seq. No.	55348	Seq. ID	OJ000323_36.0419.C1

Gene No.	115979	Strand	+
Start	1	End	610
Name	OJ000323_36.0419.C1.o1.gs	Method	GENSCAN
Start	148	End	610
GI	none	Score	.98
Exons	148..342, 419..610		

Seq. No.	55348	Seq. ID	OJ000323_36.0419.C1
Gene No.	115980	Strand	-
Start	1731	End	3143
Name	OJ000323_36.0419.C1.o1.tc	Method	TBLASTX:Cress
Start	2	End	612
GI	none	Score	89
Exons	2..58, 2..67, 147..329, 147..338, 148..342, 418..609, 419..610, 433..612		

Seq. No.	55348	Seq. ID	OJ000323_36.0419.C1
Gene No.	115980	Strand	-
Start	1731	End	3143
Name	OJ000323_36.0419.C1.o1.tm	Method	TBLASTX:Maize
Start	2	End	626
GI	none	Score	90
Exons	2..58, 3..59, 125..340, 145..351, 147..341, 147..353, 148..342, 418..609, 419..619, 425..619, 435..626, 435..626		

Seq. No.	55348	Seq. ID	OJ000323_36.0419.C1
Gene No.	115980	Strand	-
Start	1731	End	3143
Name	OJ000323_36.0419.C1.o1.ts	Method	TBLASTX:Soybean
Start	2	End	610
GI	none	Score	85
Exons	2..58, 147..329, 147..338, 148..342, 417..608, 417..608, 418..609, 419..610		

Seq. No.	55348	Seq. ID	OJ000323_36.0419.C1
Gene No.	115980	Strand	-
Start	1731	End	3143
Name	OJ000323_36.0419.C1.o1.tw	Method	TBLASTX:Wheat
Start	2	End	2417
GI	none	Score	85
Exons	2..58, 2..58, 3..59, 4..60, 145..342, 147..329, 147..353, 148..342, 418..609, 419..610, 433..615, 2337..2417		

Seq. No.	55348	Seq. ID	OJ000323_36.0419.C1
Gene No.	115980	Strand	-
Start	1731	End	3143
Name	OJ000323_36.0419.C1.o2.np	Method	AAT/NAP
Start	1248	End	2836
GI	2144418	Score	128
Exons	1248..1268, 2535..2836		
GI Descrip.	protein kinase (EC 2.7.1.37) PHO85 - yeast (Saccharomyces cerevisiae)		

Seq. No.	55348	Seq. ID	OJ000323_36.0419.C1
Gene No.	115980	Strand	-
Start	1731	End	3143
Name	OJ000323_36.0419.C1.o2.gs	Method	GENSCAN

Start	1731	End	3143
GI	none	Score	.93
Exons	1731..1868, 2419..2587, 2702..2843, 3023..3143		

Seq. No.	55348	Seq. ID	OJ000323_36.0419.C1
Gene No.	115980	Strand	-
Start	1731	End	3143
Name	OJ000323_36.0419.C1.o2.tm	Method	TBLASTX:Maize
Start	1740	End	2088
GI	none	Score	82
Exons	1740..1868, 1753..1869, 1948..2088, 1949..2071		

Seq. No.	55348	Seq. ID	OJ000323_36.0419.C1
Gene No.	115980	Strand	-
Start	1731	End	3143
Name	OJ000323_36.0419.C1.o3.tm	Method	TBLASTX:Maize
Start	2536	End	2835
GI	none	Score	69
Exons	2536..2670, 2537..2662, 2704..2835		

Seq. No.	55348	Seq. ID	OJ000323_36.0419.C1
Gene No.	115980	Strand	-
Start	1731	End	3143
Name	OJ000323_36.0419.C1.o2.tw	Method	TBLASTX:Wheat
Start	2708	End	3018
GI	none	Score	121
Exons	2708..2839, 2710..2832, 2934..3014, 2935..3018		

Seq. No.	55349	Seq. ID	OJ000323_36.0419.C2
Gene No.	115981	Strand	-
Start	901	End	1334
Name	OJ000323_36.0419.C2.o1.gs	Method	GENSCAN
Start	901	End	1334
GI	none	Score	.94
Exons	901..1334		

Seq. No.	55349	Seq. ID	OJ000323_36.0419.C2
Gene No.	115981	Strand	-
Start	901	End	1334
Name	OJ000323_36.0419.C2.o1.np	Method	AAT/NAP
Start	989	End	1308
GI	7441249	Score	105
Exons	989..1308		
GI Descrip.	probable plasma membrane intrinsic protein - rice gi|3135543|gb|AAC16545.1| (AF062393) aquaporin [Oryza sativa]		

Seq. No.	55350	Seq. ID	OJ000323_36.0419.C3
Gene No.	115982	Strand	
Start	2415	End	2645
Name	OJ000323_36.0419.C3.o1.tm	Method	TBLASTX:Maize
Start	2415	End	2645
GI	none	Score	181
Exons	2415..2645		

Seq. No.	55351	Seq. ID	OJ000323_36.0419.C4
Gene No.	115983	Strand	+
Start	13	End	1432

Name	OJ000323_36.0419.C4.o1.gs	Method	GENSCAN
Start	13	End	1432
GI	none	Score	.4
Exons	13..86, 1109..1170, 1379..1432		

Seq. No.	55351	Seq. ID	OJ000323_36.0419.C4
Gene No.	115983	Strand	+
Start	13	End	1432
Name	OJ000323_36.0419.C4.o1.gp	Method	AAT/GAP
Start	93	End	1355
GI	53621_1.R1084	Score	997
Exons	93..193, 846..1023, 1109..1355		
GI Descrip.	'1420932/gb|U61383|ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence'		

Seq. No.	55351	Seq. ID	OJ000323_36.0419.C4
Gene No.	115983	Strand	+
Start	13	End	1432
Name	OJ000323_36.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	855	End	1333
GI	none	Score	48
Exons	855..902, 855..893, 893..946, 895..945, 939..992, 941..1003, 1110..1262, 1110..1262, 1114..1263, 1266..1331, 1270..1332, 1271..1333		

Seq. No.	55352	Seq. ID	OJ000323_36.0419.C5
Gene No.	115984	Strand	+
Start	67	End	267
Name	OJ000323_36.0419.C5.o1.gs	Method	GENSCAN
Start	67	End	267
GI	none	Score	.99
Exons	67..267		

Seq. No.	55353	Seq. ID	OJ000323_36.0419.C9
Gene No.	115985	Strand	-
Start	1	End	811
Name	OJ000323_36.0419.C9.o1.np	Method	AAT/NAP
Start	1	End	811
GI	6705984	Score	1250
Exons	1..811		
GI Descrip.	(AB033235) gag-pol polyprotein [Oryza sativa]		

Seq. No.	55353	Seq. ID	OJ000323_36.0419.C9
Gene No.	115985	Strand	-
Start	1	End	811
Name	OJ000323_36.0419.C9.o1.ts	Method	TBLASTX:Soybean
Start	2	End	349
GI	none	Score	64
Exons	2..148, 30..149, 182..349		

Seq. No.	55353	Seq. ID	OJ000323_36.0419.C9
Gene No.	115985	Strand	-
Start	1	End	811
Name	OJ000323_36.0419.C9.o1.tw	Method	TBLASTX:Wheat
Start	2	End	370
GI	none	Score	82
Exons	2..163, 2..154, 9..173, 164..370, 182..328, 189..353		

Seq. No.	55353	Seq. ID	OJ000323_36.0419.C9
Gene No.	115985	Strand	-
Start	1	End	811
Name	OJ000323_36.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	131	End	376
GI	none	Score	165
Exons	131..376, 144..365		

Seq. No.	55353	Seq. ID	OJ000323_36.0419.C9
Gene No.	115985	Strand	-
Start	1	End	811
Name	OJ000323_36.0419.C9.o1.gs	Method	GENSCAN
Start	220	End	811
GI	none	Score	.68
Exons	220..811		

Seq. No.	55354	Seq. ID	OJ000323_36.0419.C10
Gene No.	115986	Strand	-
Start	1	End	3158
Name	OJ000323_36.0419.C10.o1.np	Method	AAT/NAP
Start	1	End	882
GI	6513927	Score	129
Exons	1..44, 388..571, 787..882		
GI Descrip.	(AC011664) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55354	Seq. ID	OJ000323_36.0419.C10
Gene No.	115986	Strand	-
Start	1	End	3158
Name	OJ000323_36.0419.C10.o1.tc	Method	TBLASTX:Cress
Start	392	End	569
GI	none	Score	104
Exons	392..568, 393..569		

Seq. No.	55354	Seq. ID	OJ000323_36.0419.C10
Gene No.	115986	Strand	-
Start	1	End	3158
Name	OJ000323_36.0419.C10.o1.ts	Method	TBLASTX:Soybean
Start	392	End	571
GI	none	Score	112
Exons	392..571, 410..568, 453..569		

Seq. No.	55354	Seq. ID	OJ000323_36.0419.C10
Gene No.	115986	Strand	-
Start	1	End	3158
Name	OJ000323_36.0419.C10.o1.tm	Method	TBLASTX:Maize
Start	416	End	840
GI	none	Score	158
Exons	416..571, 425..568, 730..840, 737..823		

Seq. No.	55354	Seq. ID	OJ000323_36.0419.C10
Gene No.	115986	Strand	-
Start	1	End	3158
Name	OJ000323_36.0419.C10.o1.gs	Method	GENSCAN
Start	425	End	3143
GI	none	Score	.81
Exons	425..636, 720..831, 1131..1304, 1670..1879, 3129..3143		

Seq. No.	55354	Seq. ID	OJ000323_36.0419.C10
Gene No.	115986	Strand	-
Start	1	End	3158
Name	OJ000323_36.0419.C10.o2.gp	Method	AAT/GAP
Start	3025	End	3158
GI	LIB3474-009-P1-K1-F11	Score	228
Exons	3025..3158		
GI Descrip.	'4455244/emb|CAB36743.1| 6.0e-11 (AL035523) MtN3-like protein [Arabidopsis thaliana]'		

Seq. No.	55355	Seq. ID	OJ000323_36.0419.C12
Gene No.	115987	Strand	+
Start	544	End	1903
Name	OJ000323_36.0419.C12.o1.gs	Method	GENSCAN
Start	544	End	1903
GI	none	Score	.56
Exons	544..747, 922..1005, 1809..1903		

Seq. No.	55356	Seq. ID	OJ000323_36.0419.C14
Gene No.	115988	Strand	+
Start	366	End	565
Name	OJ000323_36.0419.C14.o1.gs	Method	GENSCAN
Start	366	End	565
GI	none	Score	.43
Exons	366..565		

Seq. No.	55357	Seq. ID	OJ000323_36.0419.C15
Gene No.	115989	Strand	+
Start	4384	End	5579
Name	OJ000323_36.0419.C15.o2.gs	Method	GENSCAN
Start	4384	End	5579
GI	none	Score	.59
Exons	4384..4676, 4761..4804, 4813..5579		

Seq. No.	55357	Seq. ID	OJ000323_36.0419.C15
Gene No.	115990	Strand	-
Start	1785	End	3807
Name	OJ000323_36.0419.C15.o1.gs	Method	GENSCAN
Start	1785	End	3807
GI	none	Score	.41
Exons	1785..1864, 3258..3807		

Seq. No.	55357	Seq. ID	OJ000323_36.0419.C15
Gene No.	115991	Strand	-
Start	4353	End	4667
Name	OJ000323_36.0419.C15.o1.np	Method	AAT/NAP
Start	4353	End	4667
GI	6091769	Score	111
Exons	4353..4667		
GI Descrip.	(AC009327) unknown protein [Arabidopsis thaliana]		

Seq. No.	55358	Seq. ID	OJ000323_36.0419.C16
Gene No.	115992	Strand	+
Start	1	End	873
Name	OJ000323_36.0419.C16.o1.np	Method	AAT/NAP
Start	1	End	861

GI	4210332	Score	128
Exons	1..38, 519..593, 661..716, 817..861		
GI Descrip.	(AJ223803) 2-oxoglutarate dehydrogenase E2 subunit [Arabidopsis thaliana]		

Seq. No.	55358	Seq. ID	OJ000323_36.0419.C16
Gene No.	115992	Strand	+
Start	1	End	873
Name	OJ000323_36.0419.C16.o1.tm	Method	TBLASTX:Maize
Start	370	End	873
GI	none	Score	75
Exons	370..435, 517..591, 518..592, 535..594, 658..717, 660..725, 662..721, 814..873, 816..872		

Seq. No.	55358	Seq. ID	OJ000323_36.0419.C16
Gene No.	115992	Strand	+
Start	1	End	873
Name	OJ000323_36.0419.C16.o1.gs	Method	GENSCAN
Start	519	End	861
GI	none	Score	.74
Exons	519..593, 661..716, 817..861		

Seq. No.	55359	Seq. ID	OJ000323_36.0419.C18
Gene No.	115993	Strand	+
Start	1	End	1361
Name	OJ000323_36.0419.C18.o1.np	Method	AAT/NAP
Start	1	End	1361
GI	6907087	Score	384
Exons	1..139, 185..709, 1260..1361		
GI Descrip.	(AP001129) ESTs C72771(E2215),AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	55359	Seq. ID	OJ000323_36.0419.C18
Gene No.	115993	Strand	+
Start	1	End	1361
Name	OJ000323_36.0419.C18.o1.gs	Method	GENSCAN
Start	96	End	942
GI	none	Score	.73
Exons	96..520, 522..942		

Seq. No.	55359	Seq. ID	OJ000323_36.0419.C18
Gene No.	115994	Strand	+
Start	1944	End	2746
Name	OJ000323_36.0419.C18.o2.gs	Method	GENSCAN
Start	1944	End	2746
GI	none	Score	.52
Exons	1944..2034, 2718..2746		

Seq. No.	55359	Seq. ID	OJ000323_36.0419.C18
Gene No.	115995	Strand	-
Start	1750	End	1978
Name	OJ000323_36.0419.C18.o2.np	Method	AAT/NAP
Start	1750	End	1978
GI	4680186	Score	166
Exons	1750..1978		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	55360	Seq. ID	OJ000323_36.0419.C19
Gene No.	115996	Strand	+
Start	1451	End	2415
Name	OJ000323_36.0419.C19.o1.gs	Method	GENSCAN
Start	1451	End	2415
GI	none	Score	.84
Exons	1451..1707, 1773..2415		

Seq. No.	55360	Seq. ID	OJ000323_36.0419.C19
Gene No.	115997	Strand	-
Start	1372	End	2640
Name	OJ000323_36.0419.C19.o1.np	Method	AAT/NAP
Start	1372	End	2640
GI	7340909	Score	181
Exons	1372..1404, 2135..2340, 2369..2640		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	55360	Seq. ID	OJ000323_36.0419.C19
Gene No.	115998	Strand	-
Start	2813	End	3139
Name	OJ000323_36.0419.C19.o2.gs	Method	GENSCAN
Start	2813	End	3139
GI	none	Score	.62
Exons	2813..3139		

Seq. No.	55361	Seq. ID	OJ000323_36.0419.C20
Gene No.	115999	Strand	-
Start	173	End	312
Name	OJ000323_36.0419.C20.o1.gs	Method	GENSCAN
Start	173	End	312
GI	none	Score	.67
Exons	173..312		

Seq. No.	55362	Seq. ID	OJ000323_36.0419.C21
Gene No.	116000	Strand	-
Start	702	End	800
Name	OJ000323_36.0419.C21.o1.gs	Method	GENSCAN
Start	702	End	800
GI	none	Score	.42
Exons	702..800		

Seq. No.	55363	Seq. ID	OJ000323_36.0419.C22
Gene No.	116001	Strand	+
Start	1	End	1722
Name	OJ000323_36.0419.C22.o1.np	Method	AAT/NAP
Start	1	End	1722
GI	6705984	Score	2484
Exons	1..1722		
GI Descrip.	(AB033235) gag-pol polyprotein [Oryza sativa]		

Seq. No.	55363	Seq. ID	OJ000323_36.0419.C22
Gene No.	116001	Strand	+
Start	1	End	1722
Name	OJ000323_36.0419.C22.o4.tw	Method	TBLASTX:Wheat
Start	56	End	333
GI	none	Score	50

Exons	56..115, 71..109, 125..205, 205..333, 206..265, 217..333		
Seq. No.	55363	Seq. ID	OJ000323_36.0419.C22
Gene No.	116001	Strand	+
Start	1	End	1722
Name	OJ000323_36.0419.C22.o3.tm	Method	TBLASTX:Maize
Start	258	End	423
GI	none	Score	222
Exons	258..422, 271..423		
Seq. No.	55363	Seq. ID	OJ000323_36.0419.C22
Gene No.	116001	Strand	+
Start	1	End	1722
Name	OJ000323_36.0419.C22.o1.gs	Method	GENSCAN
Start	310	End	1624
GI	none	Score	.45
Exons	310..485, 612..1083, 1132..1624		
Seq. No.	55363	Seq. ID	OJ000323_36.0419.C22
Gene No.	116001	Strand	+
Start	1	End	1722
Name	OJ000323_36.0419.C22.o2.tw	Method	TBLASTX:Wheat
Start	379	End	852
GI	none	Score	75
Exons	379..534, 537..824, 538..852		
Seq. No.	55363	Seq. ID	OJ000323_36.0419.C22
Gene No.	116001	Strand	+
Start	1	End	1722
Name	OJ000323_36.0419.C22.o2.tm	Method	TBLASTX:Maize
Start	541	End	906
GI	none	Score	306
Exons	541..906, 543..863		
Seq. No.	55363	Seq. ID	OJ000323_36.0419.C22
Gene No.	116001	Strand	+
Start	1	End	1722
Name	OJ000323_36.0419.C22.o2.ts	Method	TBLASTX:Soybean
Start	829	End	1187
GI	none	Score	298
Exons	829..1179, 834..917, 948..1187		
Seq. No.	55363	Seq. ID	OJ000323_36.0419.C22
Gene No.	116001	Strand	+
Start	1	End	1722
Name	OJ000323_36.0419.C22.o3.tw	Method	TBLASTX:Wheat
Start	901	End	1302
GI	none	Score	269
Exons	901..1302, 948..1202		
Seq. No.	55363	Seq. ID	OJ000323_36.0419.C22
Gene No.	116001	Strand	+
Start	1	End	1722
Name	OJ000323_36.0419.C22.o1.tm	Method	TBLASTX:Maize
Start	949	End	1494
GI	none	Score	356
Exons	949..1494, 990..1370		

Seq. No.	55363	Seq. ID	OJ000323_36.0419.C22
Gene No.	116001	Strand	+
Start	1	End	1722
Name	OJ000323_36.0419.C22.o1.ts	Method	TBLASTX:Soybean
Start	1213	End	1469
GI	none	Score	338
Exons	1213..1467, 1239..1469		

Seq. No.	55363	Seq. ID	OJ000323_36.0419.C22
Gene No.	116001	Strand	+
Start	1	End	1722
Name	OJ000323_36.0419.C22.o1.tw	Method	TBLASTX:Wheat
Start	1389	End	1641
GI	none	Score	217
Exons	1389..1625, 1389..1625, 1390..1641, 1391..1630		

Seq. No.	55364	Seq. ID	OJ000323_36.0419.C23
Gene No.	116002	Strand	+
Start	1	End	3698
Name	OJ000323_36.0419.C23.o1.np	Method	AAT/NAP
Start	1	End	317
GI	6705984	Score	439
Exons	1..317		
GI Descrip.	(AB033235) gag-pol polyprotein [Oryza sativa]		

Seq. No.	55364	Seq. ID	OJ000323_36.0419.C23
Gene No.	116002	Strand	+
Start	1	End	3698
Name	OJ000323_36.0419.C23.o1.tw	Method	TBLASTX:Wheat
Start	1	End	331
GI	none	Score	382
Exons	1..312, 2..331, 3..317, 220..321		

Seq. No.	55364	Seq. ID	OJ000323_36.0419.C23
Gene No.	116002	Strand	+
Start	1	End	3698
Name	OJ000323_36.0419.C23.o1.tm	Method	TBLASTX:Maize
Start	117	End	317
GI	none	Score	212
Exons	117..317, 119..316		

Seq. No.	55364	Seq. ID	OJ000323_36.0419.C23
Gene No.	116002	Strand	+
Start	1	End	3698
Name	OJ000323_36.0419.C23.o1.gs	Method	GENSCAN
Start	160	End	3698
GI	none	Score	.52
Exons	160..354, 1641..1855, 1955..2047, 3603..3698		

Seq. No.	55364	Seq. ID	OJ000323_36.0419.C23
Gene No.	116002	Strand	+
Start	1	End	3698
Name	OJ000323_36.0419.C23.o1.gp	Method	AAT/GAP
Start	1680	End	3692
GI	5005370	Score	658
Exons	1680..1855, 1955..2047, 3603..3692		

Seq. No.	55365	Seq. ID	OJ000323_36.0419.C24
Gene No.	116003	Strand	+
Start	908	End	1710
Name	OJ000323_36.0419.C24.o1.gs	Method	GENSCAN
Start	908	End	1710
GI	none	Score	.84
Exons	908..995, 1108..1395, 1517..1567, 1606..1710		

Seq. No.	55366	Seq. ID	OJ000323_36.0419.C25
Gene No.	116004	Strand	+
Start	1368	End	7917
Name	OJ000323_36.0419.C25.o1.gs	Method	GENSCAN
Start	1368	End	7917
GI	none	Score	.65
Exons	1368..1985, 3083..3801, 4961..5230, 5484..5599, 5728..5934, 6030..6212, 6276..6459, 7193..7411, 7632..7917		

Seq. No.	55366	Seq. ID	OJ000323_36.0419.C25
Gene No.	116004	Strand	+
Start	1368	End	7917
Name	OJ000323_36.0419.C25.o1.np	Method	AAT/NAP
Start	5873	End	6884
GI	4538624	Score	283
Exons	5873..5934, 6030..6535, 6569..6884		
GI Descrip.	(AJ133502) hypothetical protein [Nicotiana tabacum]		

Seq. No.	55366	Seq. ID	OJ000323_36.0419.C25
Gene No.	116005	Strand	+
Start	8341	End	9102
Name	OJ000323_36.0419.C25.o2.gs	Method	GENSCAN
Start	8341	End	9102
GI	none	Score	.57
Exons	8341..9102		

Seq. No.	55366	Seq. ID	OJ000323_36.0419.C25
Gene No.	116006	Strand	-
Start	1841	End	2251
Name	OJ000323_36.0419.C25.o1.gp	Method	AAT/GAP
Start	1841	End	2251
GI	none	Score	806
Exons	1841..2251		

Seq. No.	55366	Seq. ID	OJ000323_36.0419.C25
Gene No.	116007	Strand	-
Start	4459	End	4669
Name	OJ000323_36.0419.C25.o3.gp	Method	AAT/GAP
Start	4459	End	4669
GI	LIB3432-057-P1-K1-C2	Score	148
Exons	4459..4487, 4557..4669		
GI Descrip.	'2499551/sp|Q55535|Y328_SYNY3 1.0e-10 PUTATIVE LOW MOLECULAR WEIGHT PROTEIN-TYROSINE-PHOSPHATASE >gi_1001408_dbj_BAA10030_ (D63999) low molecular weight phosphotyrosine protein phosphatase [Synechocystis sp.]'		

Seq. No.	55366	Seq. ID	OJ000323_36.0419.C25
Gene No.	116008	Strand	-

Start	8590	End	8708
Name	OJ000323_36.0419.C25.o3.np	Method	AAT/NAP
Start	8590	End	8708
GI	7523507	Score	48
Exons	8590..8708		
GI Descrip.	(AP001633) Similar to Oryza sativa serine carboxypeptidase-like protein (P52712)		

Seq. No.	55366	Seq. ID	OJ000323_36.0419.C25
Gene No.	116009	Strand	-
Start	9145	End	9261
Name	OJ000323_36.0419.C25.o4.np	Method	AAT/NAP
Start	9145	End	9261
GI	5777617	Score	86
Exons	9145..9261		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	55366	Seq. ID	OJ000323_36.0419.C25
Gene No.	116010	Strand	-
Start	9198	End	16003
Name	OJ000323_36.0419.C25.o2.tm	Method	TBLASTX:Maize
Start	5534	End	5881
GI	none	Score	86
Exons	5534..5617, 5548..5616, 5548..5619, 5613..5747, 5614..5733, 5688..5879, 5736..5879, 5738..5881, 5798..5881		

Seq. No.	55366	Seq. ID	OJ000323_36.0419.C25
Gene No.	116010	Strand	-
Start	9198	End	16003
Name	OJ000323_36.0419.C25.o1.tc	Method	TBLASTX:Cress
Start	6104	End	7722
GI	none	Score	264
Exons	6104..6523, 7407..7547, 7630..7722		

Seq. No.	55366	Seq. ID	OJ000323_36.0419.C25
Gene No.	116010	Strand	-
Start	9198	End	16003
Name	OJ000323_36.0419.C25.o1.tm	Method	TBLASTX:Maize
Start	6331	End	7377
GI	none	Score	575
Exons	6331..6771, 6332..6781, 6554..6781, 6607..6789, 6609..6785, 6783..6821, 6810..7109, 6817..7110, 6821..7111, 7178..7375, 7182..7373, 7192..7377, 7256..7375		

Seq. No.	55366	Seq. ID	OJ000323_36.0419.C25
Gene No.	116010	Strand	-
Start	9198	End	16003
Name	OJ000323_36.0419.C25.o3.gs	Method	GENSCAN
Start	9198	End	16003
GI	none	Score	.71
Exons	9198..9613, 10158..10200, 10462..10525, 12355..12610, 12786..12970, 13494..13740, 13811..13901, 14783..14894, 15921..16003		

Seq. No.	55366	Seq. ID	OJ000323_36.0419.C25
Gene No.	116010	Strand	-
Start	9198	End	16003

Name	OJ000323_36.0419.C25.o5.np	Method	AAT/NAP
Start	9607	End	16003
GI	6069667	Score	917
Exons	9607..9734, 12683..12732, 13354..13559, 13650..13847, 14783..14892, 15250..15357, 15856..16003		
GI Descrip.	(AP000616) similar to UMP/CMP kinase (AF000147) [Oryza sativa]		

Seq. No.	55367	Seq. ID	OJ000323_36.0419.C26
Gene No.	116011	Strand	+
Start	396	End	462
Name	OJ000323_36.0419.C26.o1.gs	Method	GENSCAN
Start	396	End	462
GI	none	Score	.79
Exons	396..462		

Seq. No.	55368	Seq. ID	OJ000323_36.0419.C27
Gene No.	116012	Strand	+
Start	677	End	1867
Name	OJ000323_36.0419.C27.o1.gs	Method	GENSCAN
Start	677	End	1867
GI	none	Score	.68
Exons	677..1867		

Seq. No.	55369	Seq. ID	OJ000323_36.0419.C29
Gene No.	116013	Strand	-
Start	24	End	616
Name	OJ000323_36.0419.C29.o1.gs	Method	GENSCAN
Start	24	End	616
GI	none	Score	.42
Exons	24..314, 495..616		

Seq. No.	55370	Seq. ID	OJ000323_36.0419.C32
Gene No.	116014	Strand	+
Start	1	End	702
Name	OJ000323_36.0419.C32.o1.np	Method	AAT/NAP
Start	1	End	702
GI	6705984	Score	988
Exons	1..702		
GI Descrip.	(AB033235) gag-pol polyprotein [Oryza sativa]		

Seq. No.	55370	Seq. ID	OJ000323_36.0419.C32
Gene No.	116014	Strand	+
Start	1	End	702
Name	OJ000323_36.0419.C32.o1.tw	Method	TBLASTX:Wheat
Start	15	End	204
GI	none	Score	229
Exons	15..191, 17..190, 28..204		

Seq. No.	55370	Seq. ID	OJ000323_36.0419.C32
Gene No.	116014	Strand	+
Start	1	End	702
Name	OJ000323_36.0419.C32.o1.gs	Method	GENSCAN
Start	115	End	655
GI	none	Score	.59
Exons	115..655		

Seq. No.	55371	Seq. ID	OJ000323_36.0419.C33

Gene No.	116015	Strand	+
Start	255	End	1761
Name	OJ000323_36.0419.C33.o1.gs	Method	GENSCAN
Start	255	End	1307
GI	none	Score	.8
Exons	255..459, 1098..1307		

Seq. No.	55371	Seq. ID	OJ000323_36.0419.C33
Gene No.	116015	Strand	+
Start	255	End	1761
Name	OJ000323_36.0419.C33.o1.gp	Method	AAT/GAP
Start	282	End	452
GI	LIB3434-056-P1-K1-E3	Score	299
Exons	282..452		
GI Descrip.	'1621495/dbj|BAA12903| 4.0e-35 (D85877) reverse transcriptase [Oryza sativa]'		

Seq. No.	55371	Seq. ID	OJ000323_36.0419.C33
Gene No.	116015	Strand	+
Start	255	End	1761
Name	OJ000323_36.0419.C33.o2.tm	Method	TBLASTX:Maize
Start	286	End	1179
GI	none	Score	208
Exons	286..447, 288..437, 1095..1139, 1095..1139, 1137..1178, 1141..1179, 1144..1179		

Seq. No.	55371	Seq. ID	OJ000323_36.0419.C33
Gene No.	116015	Strand	+
Start	255	End	1761
Name	OJ000323_36.0419.C33.o1.tw	Method	TBLASTX:Wheat
Start	1093	End	1347
GI	none	Score	120
Exons	1093..1221, 1095..1256, 1097..1168, 1244..1345, 1245..1346, 1279..1347		

Seq. No.	55371	Seq. ID	OJ000323_36.0419.C33
Gene No.	116015	Strand	+
Start	255	End	1761
Name	OJ000323_36.0419.C33.o2.gp	Method	AAT/GAP
Start	1174	End	1761
GI	2574_1.R1084	Score	714
Exons	1174..1345, 1452..1761		
GI Descrip.	'310732/gb|L08786|SYNBLSKMV 2.0e-13 BlueScribe SK Minus cloning vector'		

Seq. No.	55371	Seq. ID	OJ000323_36.0419.C33
Gene No.	116015	Strand	+
Start	255	End	1761
Name	OJ000323_36.0419.C33.o1.tm	Method	TBLASTX:Maize
Start	1182	End	1623
GI	none	Score	99
Exons	1182..1271, 1185..1271, 1259..1345, 1263..1358, 1435..1614, 1451..1618, 1452..1619, 1452..1619, 1453..1623		

Seq. No.	55372	Seq. ID	OJ000323_36.0419.C34
Gene No.	116016	Strand	+
Start	482	End	2691

Name	OJ000323_36.0419.C34.o1.np	Method	AAT/NAP
Start	482	End	2691
GI	5734745	Score	1139
Exons	482..2691		
GI Descrip.	(AC007651) Similar to disease resistance proteins [Arabidopsis thaliana]		

Seq. No.	55372	Seq. ID	OJ000323_36.0419.C34
Gene No.	116017	Strand	-
Start	455	End	871
Name	OJ000323_36.0419.C34.o1.gp	Method	AAT/GAP
Start	455	End	871
GI	uC-osf1cyp155h09b1	Score	724
Exons	455..871		
GI Descrip.	'642357/emb|X83834|TA28SRRNA 5.0e-25 T.aralioides 28S rRNA gene (partial)'		

Seq. No.	55372	Seq. ID	OJ000323_36.0419.C34
Gene No.	116018	Strand	-
Start	2938	End	3628
Name	OJ000323_36.0419.C34.o1.tc	Method	TBLASTX:Cress
Start	893	End	2457
GI	none	Score	51
Exons	893..964, 995..1048, 1061..1126, 1064..1204, 1145..1549, 1157..1348, 1157..1408, 1157..1336, 1172..1336, 1187..1336, 1220..1336, 1337..1555, 1340..1759, 1343..1552, 1343..1549, 1349..1549, 1352..1555, 1352..1549, 1355..1549, 1361..1429, 1496..1759, 1559..1759, 1565..1717, 1571..1636, 1571..1759, 1577..1750, 1580..1759, 1580..1750, 1855..2175, 1867..2097, 1870..2079, 1870..2079, 1908..2048, 1969..2097, 1972..2124, 1972..2079, 1972..2094, 1975..2100, 2136..2183, 2196..2402, 2203..2253, 2203..2403, 2203..2334, 2203..2457, 2203..2457, 2203..2415, 2218..2457, 2302..2457, 2302..2457, 2398..2457		

Seq. No.	55372	Seq. ID	OJ000323_36.0419.C34
Gene No.	116018	Strand	-
Start	2938	End	3628
Name	OJ000323_36.0419.C34.o1.tm	Method	TBLASTX:Maize
Start	998	End	2382
GI	none	Score	61
Exons	998..1126, 1067..1306, 1157..1264, 1352..1531, 1379..1744, 1385..1570, 1462..1737, 2197..2364, 2212..2382		

Seq. No.	55372	Seq. ID	OJ000323_36.0419.C34
Gene No.	116018	Strand	-
Start	2938	End	3628
Name	OJ000323_36.0419.C34.o1.ts	Method	TBLASTX:Soybean
Start	1061	End	2507
GI	none	Score	51
Exons	1061..1126, 1061..1126, 1154..1336, 1157..1414, 1157..1336, 1352..1549, 1559..1777, 1571..1750, 1580..1759, 1873..2097, 1972..2103, 1972..2067, 1975..2121, 1975..2121, 2200..2460, 2203..2388, 2203..2457, 2203..2460, 2386..2505, 2388..2507		

Seq. No.	55372	Seq. ID	OJ000323_36.0419.C34
Gene No.	116018	Strand	-
Start	2938	End	3628

Name	OJ000323_36.0419.C34.o1.tw	Method	TBLASTX:Wheat
Start	1132	End	2463
GI	none	Score	106
Exons	1132..1347, 1145..1345, 1183..1560, 1184..1561, 1205..1561, 1565..1756, 1616..1750, 1875..2048, 1972..2067, 2302..2463, 2323..2460		

Seq. No.	55372	Seq. ID	OJ000323_36.0419.C34
Gene No.	116018	Strand	-
Start	2938	End	3628
Name	OJ000323_36.0419.C34.o2.tm	Method	TBLASTX:Maize
Start	1972	End	2640
GI	none	Score	85
Exons	1972..2097, 1972..2073, 2382..2588, 2383..2571, 2394..2582, 2554..2637, 2593..2640		

Seq. No.	55372	Seq. ID	OJ000323_36.0419.C34
Gene No.	116018	Strand	-
Start	2938	End	3628
Name	OJ000323_36.0419.C34.o2.gp	Method	AAT/GAP
Start	2938	End	3560
GI	uC-osflcyp155h09b1	Score	288
Exons	2938..2977, 3402..3560		
GI Descrip.	'642357/emb|X83834|TA28SRRNA 5.0e-25 T.aralioides 28S rRNA gene (partial)'		

Seq. No.	55372	Seq. ID	OJ000323_36.0419.C34
Gene No.	116018	Strand	-
Start	2938	End	3628
Name	OJ000323_36.0419.C34.o2.gs	Method	GENSCAN
Start	3262	End	3628
GI	none	Score	.9
Exons	3262..3277, 3441..3628		

Seq. No.	55373	Seq. ID	OJ000323_36.0419.C36
Gene No.	116019	Strand	-
Start	1	End	2187
Name	OJ000323_36.0419.C36.o1.gp	Method	AAT/GAP
Start	1	End	895
GI	5005533	Score	413
Exons	1..190, 859..895		
GI Descrip.	642357/emb|X83834|TA28SRRNA 5.0e-25 T.aralioides 28S rRNA gene (partial)		

Seq. No.	55373	Seq. ID	OJ000323_36.0419.C36
Gene No.	116019	Strand	-
Start	1	End	2187
Name	OJ000323_36.0419.C36.o1.gs	Method	GENSCAN
Start	180	End	2187
GI	none	Score	.89
Exons	180..190, 859..1789, 2135..2187		

Seq. No.	55374	Seq. ID	OJ000323_37.0418.C1
Gene No.	116020	Strand	-
Start	1	End	982
Name	OJ000323_37.0418.C1.o1.gp	Method	AAT/GAP
Start	1	End	870

GI	19519_1.R1084	Score	1258
Exons	1..399, 475..714, 805..870		
GI Descrip.	'4103324 1.0e-166 (AF022716) GDP-mannose pyrophosphorylase [Solanum tuberosum]'		

Seq. No.	55374	Seq. ID	OJ000323_37.0418.C1
Gene No.	116020	Strand	-
Start	1	End	982
Name	OJ000323_37.0418.C1.o1.np	Method	AAT/NAP
Start	1	End	982
GI	4103324	Score	967
Exons	1..399, 475..714, 805..982		
GI Descrip.	(AF022716) GDP-mannose pyrophosphorylase [Solanum tuberosum]		

Seq. No.	55374	Seq. ID	OJ000323_37.0418.C1
Gene No.	116020	Strand	-
Start	1	End	982
Name	OJ000323_37.0418.C1.o1.tc	Method	TBLASTX:Cress
Start	1	End	870
GI	none	Score	396
Exons	1..399, 2..415, 469..714, 470..715, 802..870, 803..868		

Seq. No.	55374	Seq. ID	OJ000323_37.0418.C1
Gene No.	116020	Strand	-
Start	1	End	982
Name	OJ000323_37.0418.C1.o1.ts	Method	TBLASTX:Soybean
Start	1	End	870
GI	none	Score	400
Exons	1..399, 2..448, 261..401, 469..714, 470..715, 633..716, 788..847, 802..870, 803..868		

Seq. No.	55374	Seq. ID	OJ000323_37.0418.C1
Gene No.	116020	Strand	-
Start	1	End	982
Name	OJ000323_37.0418.C1.o1.tm	Method	TBLASTX:Maize
Start	22	End	903
GI	none	Score	454
Exons	22..417, 23..421, 447..521, 469..714, 470..715, 794..868, 802..903, 802..870		

Seq. No.	55374	Seq. ID	OJ000323_37.0418.C1
Gene No.	116020	Strand	-
Start	1	End	982
Name	OJ000323_37.0418.C1.o1.gs	Method	GENSCAN
Start	83	End	903
GI	none	Score	.86
Exons	83..399, 475..714, 805..903		

Seq. No.	55374	Seq. ID	OJ000323_37.0418.C1
Gene No.	116020	Strand	-
Start	1	End	982
Name	OJ000323_37.0418.C1.o1.tw	Method	TBLASTX:Wheat
Start	379	End	682
GI	none	Score	135
Exons	379..417, 454..678, 469..675, 470..682, 474..677		

Seq. No.	55375	Seq. ID	OJ000323_37.0418.C2

Gene No.	116021	Strand	+
Start	3	End	2396
Name	OJ000323_37.0418.C2.o1.gs	Method	GENSCAN
Start	3	End	2396
GI	none	Score	.54
Exons	3..101, 313..374, 1000..1130, 1480..1537, 1832..2396		

Seq. No.	55375	Seq. ID	OJ000323_37.0418.C2
Gene No.	116022	Strand	+
Start	5713	End	9539
Name	OJ000323_37.0418.C2.o4.gs	Method	GENSCAN
Start	5713	End	8750
GI	none	Score	.73
Exons	5713..6246, 7033..7246, 7670..7893, 7958..8173, 8411..8485, 8667..8750		

Seq. No.	55375	Seq. ID	OJ000323_37.0418.C2
Gene No.	116022	Strand	+
Start	5713	End	9539
Name	OJ000323_37.0418.C2.o2.gp	Method	AAT/GAP
Start	8109	End	9539
GI	uC-osflcyp021g03b1	Score	787
Exons	8109..8173, 8411..8485, 8667..8745, 8820..8884, 9370..9539		
GI Descrip.	'2239179/emb|CAB10099.1| 2.0e-24 (Z97208) hypothetical protein [Schizosaccharomyces pombe]'		

Seq. No.	55375	Seq. ID	OJ000323_37.0418.C2
Gene No.	116023	Strand	-
Start	1	End	100
Name	OJ000323_37.0418.C2.o1.np	Method	AAT/NAP
Start	1	End	100
GI	7448154	Score	153
Exons	1..100		
GI Descrip.	mannose-1-phosphate guanylyltransferase (EC 2.7.7.13) - Arabidopsis thaliana gi|2642159|gb|AAB87126.1| (AC003000) putative GDP-mannose pyrophosphorylase [Arabidopsis thaliana] gi|3598958|gb|AAC78474.1| (AF076484) GDP-mannose pyrophosphorylase [Arabidopsis thaliana] gi|4151925|gb|AAD04627.1| (AF108660) CYT1 protein [Arabidopsis thaliana]		

Seq. No.	55375	Seq. ID	OJ000323_37.0418.C2
Gene No.	116024	Strand	-
Start	3608	End	3868
Name	OJ000323_37.0418.C2.o2.gs	Method	GENSCAN
Start	3608	End	3868
GI	none	Score	.53
Exons	3608..3868		

Seq. No.	55375	Seq. ID	OJ000323_37.0418.C2
Gene No.	116025	Strand	-
Start	4540	End	5304
Name	OJ000323_37.0418.C2.o3.tm	Method	TBLASTX:Maize
Start	2	End	127
GI	none	Score	159
Exons	2..127, 3..104		

Seq. No.	55375	Seq. ID	OJ000323_37.0418.C2
Gene No.	116025	Strand	-
Start	4540	End	5304
Name	OJ000323_37.0418.C2.o3.gs	Method	GENSCAN
Start	4540	End	5304
GI	none	Score	.85
Exons	4540..5304		

Seq. No.	55375	Seq. ID	OJ000323_37.0418.C2
Gene No.	116026	Strand	
Start	6009	End	9426
Name	OJ000323_37.0418.C2.o1.tm	Method	TBLASTX:Maize
Start	6009	End	8854
GI	none	Score	40
Exons	6009..6044, 6010..6051, 6055..6090, 6055..6090, 6136..6219, 6145..6207, 6208..6246, 7022..7129, 7024..7110, 7101..7154, 7177..7212, 7200..7235, 7202..7255, 7665..7787, 7670..7789, 7672..7788, 7755..7847, 7775..7876, 7780..7839, 7842..7952, 7864..8175, 7897..7956, 8004..8177, 8006..8176, 8406..8486, 8408..8488, 8408..8488, 8666..8743, 8667..8744, 8804..8851, 8819..8854		

Seq. No.	55375	Seq. ID	OJ000323_37.0418.C2
Gene No.	116026	Strand	
Start	6009	End	9426
Name	OJ000323_37.0418.C2.o1.ts	Method	TBLASTX:Soybean
Start	8005	End	8202
GI	none	Score	81
Exons	8005..8175, 8005..8079, 8006..8185, 8119..8202		

Seq. No.	55375	Seq. ID	OJ000323_37.0418.C2
Gene No.	116026	Strand	
Start	6009	End	9426
Name	OJ000323_37.0418.C2.o1.tw	Method	TBLASTX:Wheat
Start	8022	End	9426
GI	none	Score	196
Exons	8022..8174, 8023..8175, 8024..8176, 8027..8176, 8388..8486, 8408..8488, 8408..8488, 8659..8742, 8665..8739, 8666..8743, 8667..8744, 8667..8753, 8804..8890, 8821..8895, 8824..8895, 9357..9425, 9382..9426		

Seq. No.	55375	Seq. ID	OJ000323_37.0418.C2
Gene No.	116027	Strand	
Start	9340	End	9576
Name	OJ000323_37.0418.C2.o2.tm	Method	TBLASTX:Maize
Start	9340	End	9576
GI	none	Score	210
Exons	9340..9552, 9352..9576, 9372..9575		

Seq. No.	55376	Seq. ID	OJ000323_37.0418.C3
Gene No.	116028	Strand	-
Start	1	End	313
Name	OJ000323_37.0418.C3.o1.gp	Method	AAT/GAP
Start	1	End	313
GI	none	Score	567
Exons	1..313		

Seq. No.	55376	Seq. ID	OJ000323_37.0418.C3
Gene No.	116029	Strand	-
Start	1422	End	1545
Name	OJ000323_37.0418.C3.o1.tm	Method	TBLASTX:Maize
Start	1348	End	1540
GI	none	Score	77
Exons	1348..1452, 1456..1539, 1457..1540		

Seq. No.	55376	Seq. ID	OJ000323_37.0418.C3
Gene No.	116029	Strand	-
Start	1422	End	1545
Name	OJ000323_37.0418.C3.o1.gs	Method	GENSCAN
Start	1422	End	1545
GI	none	Score	.71
Exons	1422..1474, 1497..1545		

Seq. No.	55377	Seq. ID	OJ000323_37.0418.C4
Gene No.	116030	Strand	+
Start	1	End	6419
Name	OJ000323_37.0418.C4.o2.np	Method	AAT/NAP
Start	1	End	6419
GI	7301646	Score	78
Exons	1..143, 2997..3252, 3291..3404, 3778..3937, 6396..6419		
GI Descrip.	(AE003763) CG5514 gene product [Drosophila melanogaster]		

Seq. No.	55377	Seq. ID	OJ000323_37.0418.C4
Gene No.	116030	Strand	+
Start	1	End	6419
Name	OJ000323_37.0418.C4.o1.gs	Method	GENSCAN
Start	1032	End	1112
GI	none	Score	.68
Exons	1032..1112		

Seq. No.	55377	Seq. ID	OJ000323_37.0418.C4
Gene No.	116030	Strand	+
Start	1	End	6419
Name	OJ000323_37.0418.C4.o3.np	Method	AAT/NAP
Start	3974	End	6419
GI	4895205	Score	934
Exons	3974..4093, 4220..4270, 4760..4836, 4955..5042, 5695..5970, 6081..6419		
GI Descrip.	(AC007661) putative alcohol dehydrogenase [Arabidopsis thaliana]		

Seq. No.	55377	Seq. ID	OJ000323_37.0418.C4
Gene No.	116031	Strand	-
Start	1	End	1908
Name	OJ000323_37.0418.C4.o1.np	Method	AAT/NAP
Start	1	End	1902
GI	7340680	Score	231
Exons	1..29, 508..650, 1772..1902		
GI Descrip.	(AL162508) putative protein [Arabidopsis thaliana]		

Seq. No.	55377	Seq. ID	OJ000323_37.0418.C4
Gene No.	116031	Strand	-
Start	1	End	1908
Name	OJ000323_37.0418.C4.o3.tc	Method	TBLASTX:Cress
Start	432	End	1908

GI	none	Score	139
Exons	432..656, 515..655, 1772..1888, 1774..1908		

Seq. No.	55377	Seq. ID	OJ000323_37.0418.C4
Gene No.	116031	Strand	-
Start	1	End	1908
Name	OJ000323_37.0418.C4.o2.ts	Method	TBLASTX:Soybean
Start	513	End	1902
GI	none	Score	136
Exons	513..656, 513..572, 515..655, 547..657, 1772..1888, 1774..1902		

Seq. No.	55377	Seq. ID	OJ000323_37.0418.C4
Gene No.	116031	Strand	-
Start	1	End	1908
Name	OJ000323_37.0418.C4.o2.gs	Method	GENSCAN
Start	1545	End	1902
GI	none	Score	.5
Exons	1545..1709, 1720..1902		

Seq. No.	55377	Seq. ID	OJ000323_37.0418.C4
Gene No.	116032	Strand	
Start	3976	End	6334
Name	OJ000323_37.0418.C4.o2.tc	Method	TBLASTX:Cress
Start	3976	End	4997
GI	none	Score	156
Exons	3976..4047, 3977..4096, 4001..4096, 4214..4273, 4760..4837, 4762..4839, 4956..4997		

Seq. No.	55377	Seq. ID	OJ000323_37.0418.C4
Gene No.	116032	Strand	
Start	3976	End	6334
Name	OJ000323_37.0418.C4.o2.tm	Method	TBLASTX:Maize
Start	3976	End	5736
GI	none	Score	188
Exons	3976..4050, 3977..4093, 3992..4093, 4205..4273, 4213..4302, 4757..4837, 4762..4839, 4773..4847, 4954..5037, 4959..5045, 4964..5041, 5695..5736		

Seq. No.	55377	Seq. ID	OJ000323_37.0418.C4
Gene No.	116032	Strand	
Start	3976	End	6334
Name	OJ000323_37.0418.C4.o1.ts	Method	TBLASTX:Soybean
Start	3977	End	6334
GI	none	Score	147
Exons	3977..4096, 3994..4050, 4214..4291, 4757..4837, 4762..4839, 4964..5041, 4965..5045, 5695..5970, 5700..5969, 6083..6334, 6090..6329, 6098..6331		

Seq. No.	55377	Seq. ID	OJ000323_37.0418.C4
Gene No.	116032	Strand	
Start	3976	End	6334
Name	OJ000323_37.0418.C4.o1.tm	Method	TBLASTX:Maize
Start	5754	End	6334
GI	none	Score	361
Exons	5754..5966, 5755..5970, 5759..5971, 5766..5972, 6085..6303, 6086..6334, 6090..6329, 6092..6334		

Seq. No.	55377	Seq. ID	OJ000323_37.0418.C4
Gene No.	116032	Strand	
Start	3976	End	6334
Name	OJ000323_37.0418.C4.o1.tc	Method	TBLASTX:Cress
Start	5830	End	6329
GI	none	Score	171
Exons	5830..5970, 5832..5969, 6086..6316, 6090..6329, 6126..6323		

Seq. No.	55378	Seq. ID	OJ000323_37.0418.C5
Gene No.	116033	Strand	+
Start	1853	End	3227
Name	OJ000323_37.0418.C5.o1.gs	Method	GENSCAN
Start	1853	End	3227
GI	none	Score	.65
Exons	1853..1863, 2732..2887, 3089..3227		

Seq. No.	55378	Seq. ID	OJ000323_37.0418.C5
Gene No.	116034	Strand	+
Start	4585	End	13552
Name	OJ000323_37.0418.C5.o1.gp	Method	AAT/GAP
Start	4320	End	4872
GI	LIB3431-036-P1-K1-G6	Score	794
Exons	4320..4695, 4807..4872		
GI Descrip.	'4895205/gb|AAD32792.1|AC007661_29 4.0e-21 (AC007661) putative alcohol dehydrogenase [Arabidopsis thaliana]'		

Seq. No.	55378	Seq. ID	OJ000323_37.0418.C5
Gene No.	116034	Strand	+
Start	4585	End	13552
Name	OJ000323_37.0418.C5.o1.np	Method	AAT/NAP
Start	4576	End	13549
GI	4895205	Score	1016
Exons	4576..4695, 4807..4857, 5644..5720, 5839..5926, 6450..6725, 6845..7179, 13453..13549		
GI Descrip.	(AC007661) putative alcohol dehydrogenase [Arabidopsis thaliana]		

Seq. No.	55378	Seq. ID	OJ000323_37.0418.C5
Gene No.	116034	Strand	+
Start	4585	End	13552
Name	OJ000323_37.0418.C5.o2.gs	Method	GENSCAN
Start	4585	End	7981
GI	none	Score	.92
Exons	4585..4695, 4807..4857, 5644..5720, 5839..5926, 6450..6725, 6845..7093, 7898..7981		

Seq. No.	55378	Seq. ID	OJ000323_37.0418.C5
Gene No.	116034	Strand	+
Start	4585	End	13552
Name	OJ000323_37.0418.C5.o2.gp	Method	AAT/GAP
Start	5729	End	6917
GI	57518_1.R1084	Score	1034
Exons	5729..5926, 6450..6725, 6845..6917		
GI Descrip.	'3236259 8.0e-53 (AC004684) putative alcohol dehydrogenase [Arabidopsis thaliana] >gi_4895207_gb_AAD32794.1_AC007661_31 (AC007661) putative alcohol dehydrogenase [Arabidopsis thaliana]'		

Seq. No.	55378	Seq. ID	OJ000323_37.0418.C5
Gene No.	116034	Strand	+
Start	4585	End	13552
Name	OJ000323_37.0418.C5.o3.gp	Method	AAT/GAP
Start	11774	End	12708
GI	44355_1.R1084	Score	891
Exons	11774..11986, 12078..12128, 12238..12314, 12448..12535, 12629..12708		
GI Descrip.	'3236259 3.0e-31 (AC004684) putative alcohol dehydrogenase [Arabidopsis thaliana] >gi_4895207_gb_AAD32794.1_AC007661_31 (AC007661) putative alcohol dehydrogenase [Arabidopsis thaliana]'		

Seq. No.	55378	Seq. ID	OJ000323_37.0418.C5
Gene No.	116034	Strand	+
Start	4585	End	13552
Name	OJ000323_37.0418.C5.o4.gs	Method	GENSCAN
Start	11876	End	13552
GI	none	Score	.67
Exons	11876..11986, 12238..12314, 12448..12535, 12647..12901, 12991..13131, 13469..13552		

Seq. No.	55378	Seq. ID	OJ000323_37.0418.C5
Gene No.	116035	Strand	-
Start	8833	End	10043
Name	OJ000323_37.0418.C5.o3.gs	Method	GENSCAN
Start	8833	End	10043
GI	none	Score	.96
Exons	8833..9038, 9950..10043		

Seq. No.	55378	Seq. ID	OJ000323_37.0418.C5
Gene No.	116036	Strand	-
Start	13903	End	18418
Name	OJ000323_37.0418.C5.o1.tm	Method	TBLASTX:Maize
Start	652	End	13555
GI	none	Score	128
Exons	652..738, 652..738, 6509..6721, 6510..6725, 6514..6765, 6668..6736, 6845..7093, 6847..7098, 6849..6989, 6850..7098, 7865..7981, 7895..8014, 7900..8019, 12688..12897, 12689..12901, 13030..13221, 13044..13235, 13460..13555		

Seq. No.	55378	Seq. ID	OJ000323_37.0418.C5
Gene No.	116036	Strand	-
Start	13903	End	18418
Name	OJ000323_37.0418.C5.o1.tc	Method	TBLASTX:Cress
Start	691	End	13226
GI	none	Score	68
Exons	691..738, 6585..6725, 6587..6724, 6848..7093, 6850..6981, 6890..7087, 12761..12901, 12763..12900, 13030..13221, 13036..13221, 13047..13226		

Seq. No.	55378	Seq. ID	OJ000323_37.0418.C5
Gene No.	116036	Strand	-
Start	13903	End	18418
Name	OJ000323_37.0418.C5.o3.tc	Method	TBLASTX:Cress
Start	4578	End	12318
GI	none	Score	163

Exons	4578..4658, 4579..4710, 4801..4854, 5644..5721, 5646..5723, 5840..5881, 11888..11941, 12081..12125, 12237..12317, 12238..12318		
Seq. No.	55378	Seq. ID	OJ000323_37.0418.C5
Gene No.	116036	Strand	-
Start	13903	End	18418
Name	OJ000323_37.0418.C5.o4.tm	Method	TBLASTX:Maize
Start	4578	End	11941
GI	none	Score	195
Exons	4578..4658, 4579..4710, 11869..11934, 11876..11941		
Seq. No.	55378	Seq. ID	OJ000323_37.0418.C5
Gene No.	116036	Strand	-
Start	13903	End	18418
Name	OJ000323_37.0418.C5.o1.ts	Method	TBLASTX:Soybean
Start	4579	End	13235
GI	none	Score	138
Exons	4579..4710, 4590..4658, 4801..4860, 5641..5721, 5646..5723, 5834..5926, 5840..5929, 6450..6725, 6455..6724, 6517..6726, 6531..6725, 6847..6867, 6848..6874, 6875..7093, 6881..7093, 6895..7098, 11888..11941, 12075..12131, 12080..12118, 12166..12318, 12237..12323, 12446..12535, 12664..12900, 12665..12901, 12665..12910, 12997..13221, 13035..13109, 13078..13221, 13094..13225, 13155..13235		
Seq. No.	55378	Seq. ID	OJ000323_37.0418.C5
Gene No.	116036	Strand	-
Start	13903	End	18418
Name	OJ000323_37.0418.C5.o3.tm	Method	TBLASTX:Maize
Start	4806	End	12679
GI	none	Score	83
Exons	4806..4871, 4807..4860, 5641..5721, 5646..5723, 5753..5959, 5821..5925, 12044..12136, 12054..12131, 12062..12133, 12228..12314, 12228..12317, 12229..12315, 12436..12486, 12437..12496, 12446..12538, 12447..12530, 12629..12679		
Seq. No.	55378	Seq. ID	OJ000323_37.0418.C5
Gene No.	116036	Strand	-
Start	13903	End	18418
Name	OJ000323_37.0418.C5.o5.gs	Method	GENSCAN
Start	13903	End	17072
GI	none	Score	.81
Exons	13903..14129, 14264..14335, 14451..14581, 14633..14776, 15205..15283, 16234..16343, 16348..16561, 16599..16702, 16882..17072		
Seq. No.	55378	Seq. ID	OJ000323_37.0418.C5
Gene No.	116036	Strand	-
Start	13903	End	18418
Name	OJ000323_37.0418.C5.o2.tm	Method	TBLASTX:Maize
Start	14077	End	16285
GI	none	Score	130
Exons	14077..14190, 14087..14203, 14088..14198, 14266..14343, 14268..14354, 14415..14537, 14439..14540, 14455..14538, 14456..14578, 14635..14721, 14639..14734, 14649..14735, 15205..15285, 15207..15299, 15207..15299, 15379..15423,		

15381..15422, 16125..16163, 16129..16260, 16163..16285

Seq. No.	55378	Seq. ID	OJ000323_37.0418.C5
Gene No.	116036	Strand	-
Start	13903	End	18418
Name	OJ000323_37.0418.C5.o2.ts	Method	TBLASTX:Soybean
Start	14087	End	16285
GI	none	Score	124
Exons	14087..14209, 14091..14198, 14265..14339, 14269..14334, 14455..14538, 14456..14578, 14633..14731, 14635..14721, 15205..15279, 15207..15281, 15384..15422, 16125..16163, 16129..16260, 16163..16285		

Seq. No.	55378	Seq. ID	OJ000323_37.0418.C5
Gene No.	116036	Strand	-
Start	13903	End	18418
Name	OJ000323_37.0418.C5.o2.np	Method	AAT/NAP
Start	14090	End	16284
GI	7340678	Score	626
Exons	14090..14190, 14264..14335, 14451..14539, 14633..14719, 15205..15283, 15383..15423, 16127..16284		
GI Descrip.	(AL162508) putative protein [Arabidopsis thaliana]		

Seq. No.	55378	Seq. ID	OJ000323_37.0418.C5
Gene No.	116036	Strand	-
Start	13903	End	18418
Name	OJ000323_37.0418.C5.o4.gp	Method	AAT/GAP
Start	14127	End	16408
GI	7319_2.R1084	Score	1218
Exons	14127..14190, 14264..14335, 14451..14539, 14633..14719, 15205..15283, 15383..15423, 16127..16408		
GI Descrip.	'2081612/dbj|BAA19916| 2.0e-32 (D49714) deltal-pyrroline-5-carboxylate synthetase [Oryza sativa]'		

Seq. No.	55378	Seq. ID	OJ000323_37.0418.C5
Gene No.	116036	Strand	-
Start	13903	End	18418
Name	OJ000323_37.0418.C5.o2.tc	Method	TBLASTX:Cress
Start	15207	End	16285
GI	none	Score	75
Exons	15207..15269, 15381..15422, 16129..16260, 16169..16285		

Seq. No.	55378	Seq. ID	OJ000323_37.0418.C5
Gene No.	116036	Strand	-
Start	13903	End	18418
Name	OJ000323_37.0418.C5.o3.np	Method	AAT/NAP
Start	15857	End	18418
GI	7446487	Score	87
Exons	15857..15884, 16951..17095, 17251..17319, 18104..18227, 18344..18418		
GI Descrip.	proline rich protein homolog WCOR518 - wheat (fragment) gi|1657851|gb|AAB18205.1| (U73214) cold acclimation protein WCOR518 [Triticum aestivum]		

Seq. No.	55378	Seq. ID	OJ000323_37.0418.C5
Gene No.	116036	Strand	-
Start	13903	End	18418

Name	OJ000323_37.0418.C5.o6.gs	Method	GENSCAN
Start	17283	End	18417
GI	none	Score	.64
Exons	17283..17459, 18225..18417		

Seq. No.	55379	Seq. ID	OJ000323_37.0418.C6
Gene No.	116037	Strand	+
Start	4162	End	8691
Name	OJ000323_37.0418.C6.o2.gs	Method	GENSCAN
Start	4162	End	7221
GI	none	Score	.88
Exons	4162..4270, 4956..5068, 5303..5443, 6113..6184, 6284..6387, 6468..6570, 6658..6819, 6944..7221		

Seq. No.	55379	Seq. ID	OJ000323_37.0418.C6
Gene No.	116037	Strand	+
Start	4162	End	8691
Name	OJ000323_37.0418.C6.o1.gp	Method	AAT/GAP
Start	5205	End	6585
GI	uC-osflm202120c01b1	Score	937
Exons	5205..5443, 6113..6184, 6284..6387, 6468..6585		
GI Descrip.	'5103807/gb|AAD39637.1|AC007591_2 2.0e-37 (AC007591) Contains similarity to gb_AF014403 type-2 phosphatidic acid phosphatase alpha-2 (PAP2_a2) from Homo sapiens. ESTs gb_T88254 and gb_AA394650 come from this gene. [Arabidopsis thaliana]'		

Seq. No.	55379	Seq. ID	OJ000323_37.0418.C6
Gene No.	116037	Strand	+
Start	4162	End	8691
Name	OJ000323_37.0418.C6.o1.np	Method	AAT/NAP
Start	5384	End	8691
GI	6225816	Score	831
Exons	5384..5443, 6113..6184, 6284..6387, 6468..6570, 6658..6819, 6944..7221, 8650..8691		
GI Descrip.	DELTA 1-PYRROLINE-5-CARBOXYLATE SYNTHETASE (P5CS) [INCLUDES: GLUTAMATE 5-KINASE (GAMMA-GLUTAMYL KINASE) (GK); GAMMA-GLUTAMYL PHOSPHATE REDUCTASE (GPR) (GLUTAMATE-5-SEMIALDEHYDE DEHYDROGENASE) (GLUTAMYL-GAMMA-SEMIALDEHYDE... gi|1928960 (U92286) pyrroline-5-carboxylate synthetase [Actinidia deliciosa]		

Seq. No.	55379	Seq. ID	OJ000323_37.0418.C6
Gene No.	116038	Strand	-
Start	2283	End	2803
Name	OJ000323_37.0418.C6.o1.gs	Method	GENSCAN
Start	2283	End	2803
GI	none	Score	.63
Exons	2283..2462, 2762..2803		

Seq. No.	55379	Seq. ID	OJ000323_37.0418.C6
Gene No.	116039	Strand	-
Start	4362	End	8166
Name	OJ000323_37.0418.C6.o2.np	Method	AAT/NAP
Start	4362	End	8166
GI	6721547	Score	94
Exons	4362..4381, 8070..8166		
GI Descrip.	(AP001073) Similar to Oryza sativa gene for Pib. (AB013448)		

Seq. No.	55379	Seq. ID	OJ000323_37.0418.C6
Gene No.	116039	Strand	-
Start	4362	End	8166
Name	OJ000323_37.0418.C6.o1.tw	Method	TBLASTX:Wheat
Start	5372	End	6555
GI	none	Score	64
Exons	5372..5446, 5395..5445, 5396..5446, 6101..6187, 6112..6189, 6281..6385, 6281..6385, 6283..6387, 6313..6390, 6464..6553, 6465..6554, 6466..6555		

Seq. No.	55379	Seq. ID	OJ000323_37.0418.C6
Gene No.	116039	Strand	-
Start	4362	End	8166
Name	OJ000323_37.0418.C6.o1.tm	Method	TBLASTX:Maize
Start	5384	End	7221
GI	none	Score	72
Exons	5384..5446, 6101..6187, 6112..6189, 6112..6189, 6281..6385, 6283..6399, 6283..6387, 6464..6574, 6465..6578, 6466..6579, 6649..6819, 6655..6819, 6656..6820, 6659..6820, 6699..6842, 6941..7216, 6942..7160, 6944..7219, 7072..7221		

Seq. No.	55379	Seq. ID	OJ000323_37.0418.C6
Gene No.	116039	Strand	-
Start	4362	End	8166
Name	OJ000323_37.0418.C6.o1.ts	Method	TBLASTX:Soybean
Start	5396	End	6973
GI	none	Score	62
Exons	5396..5446, 6101..6187, 6112..6183, 6281..6385, 6289..6387, 6465..6578, 6466..6579, 6655..6819, 6655..6804, 6699..6842, 6944..6973		

Seq. No.	55379	Seq. ID	OJ000323_37.0418.C6
Gene No.	116039	Strand	-
Start	4362	End	8166
Name	OJ000323_37.0418.C6.o1.tc	Method	TBLASTX:Cress
Start	6101	End	7221
GI	none	Score	110
Exons	6101..6187, 6112..6186, 6281..6385, 6292..6387, 6313..6399, 6465..6578, 6466..6579, 6631..6819, 6655..6819, 6933..7013, 6934..7089, 6941..7159, 6944..7216, 7072..7221		

Seq. No.	55379	Seq. ID	OJ000323_37.0418.C6
Gene No.	116039	Strand	-
Start	4362	End	8166
Name	OJ000323_37.0418.C6.o2.ts	Method	TBLASTX:Soybean
Start	6992	End	7221
GI	none	Score	280
Exons	6992..7216, 7004..7219, 7027..7221, 7069..7221		

Seq. No.	55380	Seq. ID	OJ000323_37.0418.C8
Gene No.	116040	Strand	+
Start	10002	End	10454
Name	OJ000323_37.0418.C8.o2.np	Method	AAT/NAP
Start	10002	End	10454
GI	6539570	Score	133
Exons	10002..10196, 10381..10454		

GI Descrip. (AP000836) hypothetical protein [Oryza sativa]

Seq. No.	55380	Seq. ID	OJ000323_37.0418.C8
Gene No.	116041	Strand	-
Start	950	End	7281
Name	OJ000323_37.0418.C8.o1.np	Method	AAT/NAP
Start	834	End	7171
GI	7340677	Score	570
Exons	834..1044, 1078..1420, 1528..1588, 2712..3091, 3916..3951, 3991..4212, 7060..7171		

GI Descrip. (AL162508) putative homeodomain protein [Arabidopsis thaliana]

Seq. No.	55380	Seq. ID	OJ000323_37.0418.C8
Gene No.	116041	Strand	-
Start	950	End	7281
Name	OJ000323_37.0418.C8.o1.gs	Method	GENSCAN
Start	950	End	7281
GI	none	Score	.63
Exons	950..1453, 1528..1588, 2712..3091, 3916..4831, 4870..5065, 5899..6080, 6914..7281		

Seq. No.	55380	Seq. ID	OJ000323_37.0418.C8
Gene No.	116042	Strand	-
Start	10002	End	10255
Name	OJ000323_37.0418.C8.o3.tm	Method	TBLASTX:Maize
Start	800	End	1039
GI	none	Score	108
Exons	800..958, 804..944, 806..958, 831..974, 835..975, 956..1027, 957..1028, 961..1029, 962..1039		

Seq. No.	55380	Seq. ID	OJ000323_37.0418.C8
Gene No.	116042	Strand	-
Start	10002	End	10255
Name	OJ000323_37.0418.C8.o1.tm	Method	TBLASTX:Maize
Start	1097	End	1588
GI	none	Score	49
Exons	1097..1144, 1116..1142, 1142..1249, 1142..1423, 1146..1325, 1153..1422, 1376..1423, 1520..1588, 1522..1587		

Seq. No.	55380	Seq. ID	OJ000323_37.0418.C8
Gene No.	116042	Strand	-
Start	10002	End	10255
Name	OJ000323_37.0418.C8.o1.ts	Method	TBLASTX:Soybean
Start	1340	End	3093
GI	none	Score	62
Exons	1340..1423, 1371..1421, 1522..1587, 1526..1585, 2711..2797, 2712..2795, 2879..3058, 3052..3093		

Seq. No.	55380	Seq. ID	OJ000323_37.0418.C8
Gene No.	116042	Strand	-
Start	10002	End	10255
Name	OJ000323_37.0418.C8.o2.tm	Method	TBLASTX:Maize
Start	2677	End	3972
GI	none	Score	142
Exons	2677..2796, 2709..2810, 2710..2838, 2711..2830, 2906..3091, 2907..3092, 3913..3972, 3914..3970		

Seq. No.	55380	Seq. ID	OJ000323_37.0418.C8
Gene No.	116042	Strand	-
Start	10002	End	10255
Name	OJ000323_37.0418.C8.o2.gs	Method	GENSCAN
Start	10002	End	10255
GI	none	Score	.91
Exons	10002..10112, 10136..10255		

Seq. No.	55381	Seq. ID	OJ000323_37.0418.C9
Gene No.	116043	Strand	+
Start	163	End	1991
Name	OJ000323_37.0418.C9.o1.gs	Method	GENSCAN
Start	163	End	614
GI	none	Score	.56
Exons	163..228, 501..614		

Seq. No.	55381	Seq. ID	OJ000323_37.0418.C9
Gene No.	116043	Strand	+
Start	163	End	1991
Name	OJ000323_37.0418.C9.o1.np	Method	AAT/NAP
Start	195	End	1991
GI	6721512	Score	155
Exons	195..467, 1958..1991		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	55381	Seq. ID	OJ000323_37.0418.C9
Gene No.	116044	Strand	-
Start	991	End	2918
Name	OJ000323_37.0418.C9.o2.gs	Method	GENSCAN
Start	991	End	2799
GI	none	Score	.75
Exons	991..1019, 1945..2116, 2297..2464, 2744..2799		

Seq. No.	55381	Seq. ID	OJ000323_37.0418.C9
Gene No.	116044	Strand	-
Start	991	End	2918
Name	OJ000323_37.0418.C9.o2.np	Method	AAT/NAP
Start	2063	End	2918
GI	5042454	Score	180
Exons	2063..2123, 2425..2592, 2833..2918		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	55382	Seq. ID	OJ000323_37.0418.C10
Gene No.	116045	Strand	+
Start	1	End	82
Name	OJ000323_37.0418.C10.o1.np	Method	AAT/NAP
Start	1	End	82
GI	7523512	Score	123
Exons	1..82		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	55382	Seq. ID	OJ000323_37.0418.C10
Gene No.	116046	Strand	+
Start	20125	End	22667
Name	OJ000323_37.0418.C10.o2.gs	Method	GENSCAN
Start	20125	End	22667
GI	none	Score	.63

Exons	20125..20277, 20537..20565, 20623..20766, 21308..21482, 21972..22044, 22495..22667		
Seq. No.	55382	Seq. ID	OJ000323_37.0418.C10
Gene No.	116047	Strand	-
Start	4185	End	4241
Name	OJ000323_37.0418.C10.o1.gp	Method	AAT/GAP
Start	4185	End	4241
GI	2312838	Score	67
Exons	4185..4241		
GI Descrip.	1420932/gb|U61383|ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence		
Seq. No.	55382	Seq. ID	OJ000323_37.0418.C10
Gene No.	116048	Strand	-
Start	8670	End	10710
Name	OJ000323_37.0418.C10.o2.np	Method	AAT/NAP
Start	8670	End	10710
GI	3024501	Score	883
Exons	8670..9152, 10546..10710		
GI Descrip.	RAS-RELATED PROTEIN RAB11C gi|1370146|emb|CAA98179| (Z73951) RAB11C [Lotus japonicus]		
Seq. No.	55382	Seq. ID	OJ000323_37.0418.C10
Gene No.	116049	Strand	-
Start	11645	End	12607
Name	OJ000323_37.0418.C10.o1.tm	Method	TBLASTX:Maize
Start	8622	End	10711
GI	none	Score	257
Exons	8622..9146, 8676..9155, 8686..9153, 10543..10710, 10550..10711		
Seq. No.	55382	Seq. ID	OJ000323_37.0418.C10
Gene No.	116049	Strand	-
Start	11645	End	12607
Name	OJ000323_37.0418.C10.o1.tc	Method	TBLASTX:Cress
Start	8676	End	10728
GI	none	Score	45
Exons	8676..8798, 8689..8733, 8745..9155, 8779..9150, 10543..10728, 10553..10717		
Seq. No.	55382	Seq. ID	OJ000323_37.0418.C10
Gene No.	116049	Strand	-
Start	11645	End	12607
Name	OJ000323_37.0418.C10.o1.ts	Method	TBLASTX:Soybean
Start	8676	End	10711
GI	none	Score	187
Exons	8676..9155, 8759..9109, 8779..9150, 10543..10710, 10544..10711		
Seq. No.	55382	Seq. ID	OJ000323_37.0418.C10
Gene No.	116049	Strand	-
Start	11645	End	12607
Name	OJ000323_37.0418.C10.o1.tw	Method	TBLASTX:Wheat
Start	8772	End	9152
GI	none	Score	233
Exons	8772..9152, 8779..9135		
Seq. No.	55382	Seq. ID	OJ000323_37.0418.C10

Gene No.	116049	Strand	-
Start	11645	End	12607
Name	OJ000323_37.0418.C10.o2.tw	Method	TBLASTX:Wheat
Start	10543	End	10738
GI	none	Score	262
Exons	10543..10737, 10544..10738		

Seq. No.	55382	Seq. ID	OJ000323_37.0418.C10
Gene No.	116049	Strand	-
Start	11645	End	12607
Name	OJ000323_37.0418.C10.o3.np	Method	AAT/NAP
Start	11645	End	12607
GI	6069646	Score	742
Exons	11645..11731, 11764..12607		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	55382	Seq. ID	OJ000323_37.0418.C10
Gene No.	116049	Strand	-
Start	11645	End	12607
Name	OJ000323_37.0418.C10.o2.tm	Method	TBLASTX:Maize
Start	11779	End	12194
GI	none	Score	93
Exons	11779..11862, 11916..12194, 11935..12180		

Seq. No.	55383	Seq. ID	OJ000323_37.0418.C11
Gene No.	116050	Strand	+
Start	1	End	1010
Name	OJ000323_37.0418.C11.o1.np	Method	AAT/NAP
Start	1	End	842
GI	6225820	Score	313
Exons	1..173, 266..332, 483..554, 768..842		
GI Descrip.	DELTA 1-PYRROLINE-5-CARBOXYLATE SYNTHETASE (P5CS) [INCLUDES: GLUTAMATE 5-KINASE (GAMMA-GLUTAMYL KINASE) (GK); GAMMA-GLUTAMYL PHOSPHATE REDUCTASE (GPR) (GLUTAMATE-5-SEMIALDEHYDE DEHYDROGENASE) (GLUTAMYL-GAMMA-SEMIALDEHYDE... gi|2081612|dbj|BAA19916| (D49714) deltal-pyrroline-5-carboxylate synthetase [Oryza sativa]		

Seq. No.	55383	Seq. ID	OJ000323_37.0418.C11
Gene No.	116050	Strand	+
Start	1	End	1010
Name	OJ000323_37.0418.C11.o1.gp	Method	AAT/GAP
Start	252	End	1010
GI	428854	Score	558
Exons	252..332, 483..553, 767..846, 918..1010		
GI Descrip.	2081612/dbj|BAA19916| 2.0e-32 (D49714) deltal-pyrroline-5-carboxylate synthetase [Oryza sativa]		

Seq. No.	55383	Seq. ID	OJ000323_37.0418.C11
Gene No.	116051	Strand	+
Start	1177	End	1495
Name	OJ000323_37.0418.C11.o2.gp	Method	AAT/GAP
Start	1177	End	1495

GI	2798694	Score	596
Exons	1177..1495		

Seq. No.	55383	Seq. ID	OJ000323_37.0418.C11
Gene No.	116052	Strand	-
Start	1959	End	4707
Name	OJ000323_37.0418.C11.o1.tc	Method	TBLASTX:Cress
Start	27	End	2483
GI	none	Score	60
Exons	27..125, 1945..2370, 1948..2232, 1956..2483		

Seq. No.	55383	Seq. ID	OJ000323_37.0418.C11
Gene No.	116052	Strand	-
Start	1959	End	4707
Name	OJ000323_37.0418.C11.o3.tm	Method	TBLASTX:Maize
Start	76	End	854
GI	none	Score	101
Exons	76..126, 84..173, 103..171, 246..332, 261..335, 263..334, 481..549, 482..550, 483..551, 740..853, 758..847, 768..854		

Seq. No.	55383	Seq. ID	OJ000323_37.0418.C11
Gene No.	116052	Strand	-
Start	1959	End	4707
Name	OJ000323_37.0418.C11.o2.ts	Method	TBLASTX:Soybean
Start	1953	End	2250
GI	none	Score	57
Exons	1953..2249, 1955..1987, 1957..2250		

Seq. No.	55383	Seq. ID	OJ000323_37.0418.C11
Gene No.	116052	Strand	-
Start	1959	End	4707
Name	OJ000323_37.0418.C11.o2.tm	Method	TBLASTX:Maize
Start	1956	End	2240
GI	none	Score	76
Exons	1956..2036, 1956..2240, 1957..2163		

Seq. No.	55383	Seq. ID	OJ000323_37.0418.C11
Gene No.	116052	Strand	-
Start	1959	End	4707
Name	OJ000323_37.0418.C11.o2.np	Method	AAT/NAP
Start	1959	End	4707
GI	7487755	Score	1720
Exons	1959..3802, 4662..4707		
GI Descrip.	hypothetical protein T6H20.180 - Arabidopsis thaliana gi|5541680|emb|CAB51186.1| (AL096859) putative protein [Arabidopsis thaliana]		

Seq. No.	55383	Seq. ID	OJ000323_37.0418.C11
Gene No.	116052	Strand	-
Start	1959	End	4707
Name	OJ000323_37.0418.C11.o1.tm	Method	TBLASTX:Maize
Start	2241	End	3596
GI	none	Score	45
Exons	2241..2684, 2248..2493, 2539..2673, 2685..2855, 2688..2879, 2689..2880, 2703..2891, 2745..2882, 2883..3083, 2898..3092, 3099..3326, 3105..3332, 3444..3596		

Seq. No.	55383	Seq. ID	OJ000323_37.0418.C11
Gene No.	116052	Strand	-
Start	1959	End	4707
Name	OJ000323_37.0418.C11.o1.ts	Method	TBLASTX:Soybean
Start	2260	End	2792
GI	none	Score	99
Exons	2260..2667, 2262..2666, 2691..2792, 2712..2759		

Seq. No.	55383	Seq. ID	OJ000323_37.0418.C11
Gene No.	116052	Strand	-
Start	1959	End	4707
Name	OJ000323_37.0418.C11.o1.tw	Method	TBLASTX:Wheat
Start	2655	End	3593
GI	none	Score	82
Exons	2655..2687, 2691..2870, 2709..2828, 2713..2868, 2881..3093, 2898..3083, 3108..3320, 3121..3270, 3369..3593		

Seq. No.	55383	Seq. ID	OJ000323_37.0418.C11
Gene No.	116052	Strand	-
Start	1959	End	4707
Name	OJ000323_37.0418.C11.o2.tc	Method	TBLASTX:Cress
Start	2688	End	3611
GI	none	Score	44
Exons	2688..2792, 2709..2882, 2790..2882, 2797..2844, 2874..3071, 2892..3095, 2929..3099, 3094..3225, 3096..3224, 3108..3359, 3136..3231, 3169..3267, 3426..3611, 3444..3605		

Seq. No.	55383	Seq. ID	OJ000323_37.0418.C11
Gene No.	116052	Strand	-
Start	1959	End	4707
Name	OJ000323_37.0418.C11.o3.ts	Method	TBLASTX:Soybean
Start	2796	End	3512
GI	none	Score	111
Exons	2796..3029, 2827..2967, 3201..3332, 3444..3512		

Seq. No.	55384	Seq. ID	OJ000323_37.0418.C12
Gene No.	116053	Strand	+
Start	70	End	130
Name	OJ000323_37.0418.C12.o1.gs	Method	GENSCAN
Start	70	End	130
GI	none	Score	.82
Exons	70..130		

Seq. No.	55385	Seq. ID	OJ000323_37.0418.C15
Gene No.	116054	Strand	+
Start	244	End	811
Name	OJ000323_37.0418.C15.o1.gs	Method	GENSCAN
Start	244	End	811
GI	none	Score	.77
Exons	244..474, 785..811		

Seq. No.	55386	Seq. ID	OJ000323_37.0418.C16
Gene No.	116055	Strand	+
Start	171	End	3221
Name	OJ000323_37.0418.C16.o1.gs	Method	GENSCAN
Start	171	End	3091
GI	none	Score	.68

Exons	171..450, 964..997, 1843..2105, 2306..2434, 3033..3091		
Seq. No.	55386	Seq. ID	OJ000323_37.0418.C16
Gene No.	116055	Strand	+
Start	171	End	3221
Name	OJ000323_37.0418.C16.o1.np	Method	AAT/NAP
Start	171	End	3221
GI	7076801	Score	835
Exons	171..253, 290..450, 1302..1375, 1460..1544, 1642..1716, 1797..1857, 1894..2105, 2198..2434, 3048..3221		
GI Descrip.	(AL132975) Regulator of chromosome condensation-like protein [Arabidopsis thaliana]		
Seq. No.	55386	Seq. ID	OJ000323_37.0418.C16
Gene No.	116055	Strand	+
Start	171	End	3221
Name	OJ000323_37.0418.C16.o2.ts	Method	TBLASTX:Soybean
Start	285	End	1733
GI	none	Score	110
Exons	285..380, 299..379, 1297..1407, 1298..1372, 1459..1557, 1460..1543, 1626..1733, 1640..1732		
Seq. No.	55386	Seq. ID	OJ000323_37.0418.C16
Gene No.	116055	Strand	+
Start	171	End	3221
Name	OJ000323_37.0418.C16.o1.tm	Method	TBLASTX:Maize
Start	1304	End	1691
GI	none	Score	125
Exons	1304..1375, 1306..1377, 1307..1375, 1312..1377, 1457..1543, 1457..1549, 1459..1557, 1621..1686, 1626..1691, 1636..1686, 1640..1690, 1641..1691		
Seq. No.	55386	Seq. ID	OJ000323_37.0418.C16
Gene No.	116055	Strand	+
Start	171	End	3221
Name	OJ000323_37.0418.C16.o1.gp	Method	AAT/GAP
Start	1655	End	3077
GI	4879074	Score	1106
Exons	1655..1767, 1869..2105, 2198..2434, 3048..3077		
Seq. No.	55386	Seq. ID	OJ000323_37.0418.C16
Gene No.	116055	Strand	+
Start	171	End	3221
Name	OJ000323_37.0418.C16.o3.tm	Method	TBLASTX:Maize
Start	1921	End	2104
GI	none	Score	270
Exons	1921..2103, 1922..2104		
Seq. No.	55386	Seq. ID	OJ000323_37.0418.C16
Gene No.	116055	Strand	+
Start	171	End	3221
Name	OJ000323_37.0418.C16.o1.ts	Method	TBLASTX:Soybean
Start	1922	End	3136
GI	none	Score	189
Exons	1922..2104, 1923..2027, 1927..2103, 1965..2108, 2073..2108, 2209..2322, 2213..2287, 2254..2337, 2338..2463, 2340..2462, 3047..3136		

Seq. No.	55386	Seq. ID	OJ000323_37.0418.C16
Gene No.	116055	Strand	+
Start	171	End	3221
Name	OJ000323_37.0418.C16.o2.tm	Method	TBLASTX:Maize
Start	2253	End	3136
GI	none	Score	277
Exons	2253..2432, 2254..2463, 3032..3136, 3046..3090		

Seq. No.	55387	Seq. ID	OJ000323_37.0418.C17
Gene No.	116056	Strand	+
Start	126	End	1255
Name	OJ000323_37.0418.C17.o1.gs	Method	GENSCAN
Start	126	End	1255
GI	none	Score	.44
Exons	126..161, 204..294, 942..1255		

Seq. No.	55387	Seq. ID	OJ000323_37.0418.C17
Gene No.	116056	Strand	+
Start	126	End	1255
Name	OJ000323_37.0418.C17.o1.ts	Method	TBLASTX:Soybean
Start	201	End	1166
GI	none	Score	103
Exons	201..290, 203..289, 806..862, 811..861, 938..1114, 939..1064, 1146..1166		

Seq. No.	55387	Seq. ID	OJ000323_37.0418.C17
Gene No.	116056	Strand	+
Start	126	End	1255
Name	OJ000323_37.0418.C17.o1.np	Method	AAT/NAP
Start	204	End	1062
GI	7076801	Score	230
Exons	204..294, 816..859, 942..1062		
GI Descrip.	(AL132975) Regulator of chromosome condensation-like protein [Arabidopsis thaliana]		

Seq. No.	55387	Seq. ID	OJ000323_37.0418.C17
Gene No.	116056	Strand	+
Start	126	End	1255
Name	OJ000323_37.0418.C17.o1.tm	Method	TBLASTX:Maize
Start	249	End	1181
GI	none	Score	71
Exons	249..293, 798..851, 806..862, 813..851, 814..855, 876..1070, 939..1073, 941..1078, 959..1084, 1091..1114, 1091..1180, 1140..1181		

Seq. No.	55387	Seq. ID	OJ000323_37.0418.C17
Gene No.	116056	Strand	+
Start	126	End	1255
Name	OJ000323_37.0418.C17.o1.tc	Method	TBLASTX:Cress
Start	806	End	1079
GI	none	Score	86
Exons	806..862, 811..861, 938..1060, 939..1079		

Seq. No.	55388	Seq. ID	OJ000313_32.0419.C3
Gene No.	116057	Strand	-
Start	664	End	2762

Name	OJ000313_32.0419.C3.o1.gs	Method	GENSCAN
Start	664	End	2219
GI	none	Score	.56
Exons	664..838, 1297..1462, 1553..1655, 2127..2219		

Seq. No.	55388	Seq. ID	OJ000313_32.0419.C3
Gene No.	116057	Strand	-
Start	664	End	2762
Name	OJ000313_32.0419.C3.o1.np	Method	AAT/NAP
Start	664	End	2762
GI	5668770	Score	237
Exons	664..897, 1261..1458, 1552..1655, 2127..2221, 2587..2762		
GI Descrip.	(AC005916) T17H3.9 [Arabidopsis thaliana]		

Seq. No.	55389	Seq. ID	OJ000313_32.0419.C5
Gene No.	116058	Strand	+
Start	2486	End	6791
Name	OJ000313_32.0419.C5.o1.gp	Method	AAT/GAP
Start	2486	End	3973
GI	14116_1.R1084	Score	801
Exons	2486..2667, 2906..3052, 3165..3232, 3909..3973		
GI Descrip.	'1143511/emb|CAA87385| 1.0e-55 (Z47076) Ser/Thr protein phosphatase homologous to PPX [Malus domestica] >gi_1586034_prf__2202340A Ser/Thr protein phosphatase [Malus domestica]'		

Seq. No.	55389	Seq. ID	OJ000313_32.0419.C5
Gene No.	116058	Strand	+
Start	2486	End	6791
Name	OJ000313_32.0419.C5.o1.gs	Method	GENSCAN
Start	2587	End	6613
GI	none	Score	.79
Exons	2587..2667, 2906..3052, 4612..4722, 5446..5589, 5708..5803, 5919..5990, 6530..6613		

Seq. No.	55389	Seq. ID	OJ000313_32.0419.C5
Gene No.	116058	Strand	+
Start	2486	End	6791
Name	OJ000313_32.0419.C5.o1.np	Method	AAT/NAP
Start	2587	End	6610
GI	7488629	Score	1287
Exons	2587..2667, 2906..3052, 3165..3232, 3909..3966, 4612..4722, 4806..4856, 5446..5589, 5708..5803, 5919..5990, 6530..6610		
GI Descrip.	probable phosphoprotein phosphatase (EC 3.1.3.16) - apple tree gi|1143511|emb|CAA87385.1| (Z47076) Ser/Thr protein phosphatase homologous to PPX [Malus domestica] gi|1586034|prf||2202340A Ser/Thr protein phosphatase [Malus domestica]		

Seq. No.	55389	Seq. ID	OJ000313_32.0419.C5
Gene No.	116058	Strand	+
Start	2486	End	6791
Name	OJ000313_32.0419.C5.o2.gp	Method	AAT/GAP
Start	4699	End	6791
GI	60137_1.R1084	Score	1172
Exons	4699..4722, 4806..4856, 5446..5589, 5708..5803, 5919..5990, 6530..6791		
GI Descrip.	'1143511/emb|CAA87385| 6.0e-87 (Z47076) Ser/Thr protein		

phosphatase homologous to PPX [Malus domestica]
>gi_1586034_prf__2202340A Ser/Thr protein phosphatase [Malus domestica]'

Seq. No.	55389	Seq. ID	OJ000313_32.0419.C5
Gene No.	116059	Strand	-
Start	8325	End	9010
Name	OJ000313_32.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	2527	End	6810
GI	none	Score	34
Exons	2527..2565, 2581..2670, 2586..2669, 2893..3066, 2906..3052, 2907..3071, 2908..3054, 3164..3235, 3165..3236, 3166..3237, 3895..3972, 3906..3968, 3907..4002, 4609..4719, 4611..4718, 4611..4724, 4627..4725, 4802..4852, 4803..4859, 4813..4860, 5427..5603, 5428..5589, 5705..5806, 5707..5805, 5910..5996, 5919..5990, 5920..6030, 5921..6001, 6528..6617, 6529..6618, 6530..6616, 6608..6640, 6609..6641, 6616..6648, 6618..6641, 6628..6738, 6641..6736, 6641..6739, 6645..6740, 6651..6743, 6726..6773, 6727..6771, 6778..6810		

Seq. No.	55389	Seq. ID	OJ000313_32.0419.C5
Gene No.	116059	Strand	-
Start	8325	End	9010
Name	OJ000313_32.0419.C5.o1.tc	Method	TBLASTX:Cress
Start	2586	End	5567
GI	none	Score	123
Exons	2586..2669, 2587..2670, 2893..3066, 2906..3052, 2908..3054, 3164..3232, 3165..3236, 3895..3972, 3906..3968, 4608..4688, 4611..4688, 4627..4689, 4683..4721, 4683..4724, 4818..4859, 4820..4852, 5427..5507, 5428..5496, 5490..5567, 5500..5520, 5515..5559		

Seq. No.	55389	Seq. ID	OJ000313_32.0419.C5
Gene No.	116059	Strand	-
Start	8325	End	9010
Name	OJ000313_32.0419.C5.o1.ts	Method	TBLASTX:Soybean
Start	2586	End	6634
GI	none	Score	121
Exons	2586..2669, 2587..2670, 2893..3066, 2906..3052, 2914..3054, 2957..3067, 3164..3235, 3165..3236, 3895..3972, 3906..3968, 4610..4708, 4611..4721, 4611..4724, 4627..4725, 4805..4855, 4806..4859, 5428..5589, 5433..5621, 5705..5806, 5707..5805, 5918..5992, 5919..5990, 5921..5992, 6521..6634, 6521..6607, 6529..6609		

Seq. No.	55389	Seq. ID	OJ000313_32.0419.C5
Gene No.	116059	Strand	-
Start	8325	End	9010
Name	OJ000313_32.0419.C5.o1.tw	Method	TBLASTX:Wheat
Start	4639	End	5990
GI	none	Score	81
Exons	4639..4725, 4791..4859, 5428..5589, 5431..5589, 5704..5766, 5705..5776, 5919..5990		

Seq. No.	55389	Seq. ID	OJ000313_32.0419.C5
Gene No.	116059	Strand	-
Start	8325	End	9010

Name	OJ000313_32.0419.C5.o2.tw	Method	TBLASTX:Wheat
Start	6521	End	6792
GI	none	Score	144
Exons	6521..6616, 6529..6615, 6533..6619, 6622..6693, 6622..6660, 6644..6694, 6718..6792, 6738..6791		

Seq. No.	55389	Seq. ID	OJ000313_32.0419.C5
Gene No.	116059	Strand	-
Start	8325	End	9010
Name	OJ000313_32.0419.C5.o2.gs	Method	GENSCAN
Start	8325	End	9010
GI	none	Score	.84
Exons	8325..8430, 8919..9010		

Seq. No.	55390	Seq. ID	OJ000313_32.0419.C6
Gene No.	116060	Strand	+
Start	58	End	1137
Name	OJ000313_32.0419.C6.o1.gs	Method	GENSCAN
Start	58	End	1137
GI	none	Score	.89
Exons	58..625, 992..1137		

Seq. No.	55390	Seq. ID	OJ000313_32.0419.C6
Gene No.	116061	Strand	-
Start	2328	End	2673
Name	OJ000313_32.0419.C6.o2.gs	Method	GENSCAN
Start	2328	End	2673
GI	none	Score	.9
Exons	2328..2392, 2529..2673		

Seq. No.	55391	Seq. ID	OJ000313_32.0419.C7
Gene No.	116062	Strand	+
Start	5388	End	5646
Name	OJ000313_32.0419.C7.o1.gp	Method	AAT/GAP
Start	5388	End	5646
GI	none	Score	499
Exons	5388..5646		

Seq. No.	55391	Seq. ID	OJ000313_32.0419.C7
Gene No.	116063	Strand	+
Start	8146	End	8771
Name	OJ000313_32.0419.C7.o3.gp	Method	AAT/GAP
Start	8146	End	8771
GI	12340_1.R1084	Score	1153
Exons	8146..8771		
GI Descrip.	'418548/sp|P32698|YJBQ_ECOLI 7.0e-16 HYPOTHETICAL 15.7 KD PROTEIN IN APHA-UVRA INTERGENIC REGION (O138) >gi_396391 (U00006) No definition line found [Escherichia coli] >gi_1790491 (AE000479) orf, hypothetical protein [Escherichia coli]'		

Seq. No.	55391	Seq. ID	OJ000313_32.0419.C7
Gene No.	116064	Strand	-
Start	43	End	3020
Name	OJ000313_32.0419.C7.o1.gs	Method	GENSCAN
Start	43	End	3020
GI	none	Score	.58
Exons	43..420, 537..963, 1507..1614, 2139..2314, 2320..2607,		

2685..3020

Seq. No.	55391	Seq. ID	OJ000313_32.0419.C7
Gene No.	116064	Strand	-
Start	43	End	3020
Name	OJ000313_32.0419.C7.o1.np	Method	AAT/NAP
Start	55	End	860
GI	2190992	Score	633
Exons	55..413, 530..860		
GI Descrip.	(AF004358) glutathione S-transferase TSI-1 [Aegilops tauschii]		

Seq. No.	55391	Seq. ID	OJ000313_32.0419.C7
Gene No.	116064	Strand	-
Start	43	End	3020
Name	OJ000313_32.0419.C7.o2.np	Method	AAT/NAP
Start	2242	End	3011
GI	2190992	Score	586
Exons	2242..2607, 2685..3011		
GI Descrip.	(AF004358) glutathione S-transferase TSI-1 [Aegilops tauschii]		

Seq. No.	55391	Seq. ID	OJ000313_32.0419.C7
Gene No.	116065	Strand	-
Start	5702	End	8670
Name	OJ000313_32.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	18	End	2978
GI	none	Score	312
Exons	18..119, 52..339, 52..216, 216..239, 295..423, 543..845, 627..710, 634..825, 782..847, 783..848, 2239..2547, 2239..2595, 2686..2748, 2687..2749, 2688..2750, 2688..2750, 2746..2778, 2748..2864, 2748..2978, 2755..2976		

Seq. No.	55391	Seq. ID	OJ000313_32.0419.C7
Gene No.	116065	Strand	-
Start	5702	End	8670
Name	OJ000313_32.0419.C7.o1.ts	Method	TBLASTX:Soybean
Start	67	End	2970
GI	none	Score	38
Exons	67..216, 627..842, 2269..2490, 2470..2583, 2682..2750, 2683..2748, 2772..2969, 2776..2970		

Seq. No.	55391	Seq. ID	OJ000313_32.0419.C7
Gene No.	116065	Strand	-
Start	5702	End	8670
Name	OJ000313_32.0419.C7.o2.tc	Method	TBLASTX:Cress
Start	100	End	2565
GI	none	Score	188
Exons	100..198, 292..423, 2281..2565		

Seq. No.	55391	Seq. ID	OJ000313_32.0419.C7
Gene No.	116065	Strand	-
Start	5702	End	8670
Name	OJ000313_32.0419.C7.o1.tw	Method	TBLASTX:Wheat
Start	232	End	2967
GI	none	Score	110
Exons	232..348, 287..424, 295..423, 531..569, 627..710, 627..815, 637..816, 2404..2595, 2419..2532, 2474..2596, 2688..2768, 2688..2756, 2748..2966, 2755..2967		

Seq. No.	55391	Seq. ID	OJ000313_32.0419.C7
Gene No.	116065	Strand	-
Start	5702	End	8670
Name	OJ000313_32.0419.C7.o1.tc	Method	TBLASTX:Cress
Start	543	End	2975
GI	none	Score	52
Exons	543..569, 627..845, 2688..2756, 2689..2757, 2760..2975, 2769..2864		

Seq. No.	55391	Seq. ID	OJ000313_32.0419.C7
Gene No.	116065	Strand	-
Start	5702	End	8670
Name	OJ000313_32.0419.C7.o2.gp	Method	AAT/GAP
Start	5702	End	6264
GI	none	Score	1078
Exons	5702..6264		

Seq. No.	55391	Seq. ID	OJ000313_32.0419.C7
Gene No.	116065	Strand	-
Start	5702	End	8670
Name	OJ000313_32.0419.C7.o3.np	Method	AAT/NAP
Start	5702	End	8670
GI	7292499	Score	300
Exons	5702..5911, 7094..7635, 7742..7867, 8117..8353, 8479..8670		
GI Descrip.	(AE003481) CG15021 gene product [Drosophila melanogaster]		

Seq. No.	55391	Seq. ID	OJ000313_32.0419.C7
Gene No.	116065	Strand	-
Start	5702	End	8670
Name	OJ000313_32.0419.C7.o2.tm	Method	TBLASTX:Maize
Start	7190	End	7645
GI	none	Score	82
Exons	7190..7246, 7319..7486, 7378..7464, 7594..7644, 7598..7645		

Seq. No.	55391	Seq. ID	OJ000313_32.0419.C7
Gene No.	116065	Strand	-
Start	5702	End	8670
Name	OJ000313_32.0419.C7.o2.ts	Method	TBLASTX:Soybean
Start	7370	End	7852
GI	none	Score	66
Exons	7370..7459, 7598..7852, 7612..7851		

Seq. No.	55392	Seq. ID	OJ000313_32.0419.C8
Gene No.	116066	Strand	+
Start	330	End	4987
Name	OJ000313_32.0419.C8.o1.gs	Method	GENSCAN
Start	330	End	4987
GI	none	Score	.85
Exons	330..723, 756..847, 1901..2599, 2695..2797, 3199..3330, 3727..3897, 4418..4518, 4892..4987		

Seq. No.	55392	Seq. ID	OJ000313_32.0419.C8
Gene No.	116066	Strand	+
Start	330	End	4987
Name	OJ000313_32.0419.C8.o1.np	Method	AAT/NAP
Start	418	End	3908

GI	5103806	Score	1206
Exons	418..680, 770..847, 1901..2599, 2695..2797, 2989..3084, 3160..3330, 3727..3908		
GI Descrip.	(AC007591) EST gb|F14271 comes from this gene. [Arabidopsis thaliana]		

Seq. No.	55392	Seq. ID	OJ000313_32.0419.C8
Gene No.	116066	Strand	+
Start	330	End	4987
Name	OJ000313_32.0419.C8.o2.np	Method	AAT/NAP
Start	4411	End	4646
GI	6899652	Score	195
Exons	4411..4518, 4590..4646		
GI Descrip.	(AC012189) Contains similarity to unknown stress inducible protein product from Hordeum vulgare gb|AJ000230. [Arabidopsis thaliana]		

Seq. No.	55392	Seq. ID	OJ000313_32.0419.C8
Gene No.	116067	Strand	+
Start	9978	End	11578
Name	OJ000313_32.0419.C8.o5.np	Method	AAT/NAP
Start	9978	End	11578
GI	7340909	Score	166
Exons	9978..10006, 11286..11578		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	55392	Seq. ID	OJ000313_32.0419.C8
Gene No.	116068	Strand	-
Start	5452	End	11578
Name	OJ000313_32.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	778	End	2775
GI	none	Score	103
Exons	778..843, 779..859, 1829..1846, 1898..1987, 1903..2004, 2189..2602, 2200..2601, 2411..2608, 2692..2775		

Seq. No.	55392	Seq. ID	OJ000313_32.0419.C8
Gene No.	116068	Strand	-
Start	5452	End	11578
Name	OJ000313_32.0419.C8.o2.tm	Method	TBLASTX:Maize
Start	2729	End	3265
GI	none	Score	115
Exons	2729..2797, 2730..2798, 2730..2798, 2731..2799, 2734..2799, 2955..3047, 2978..3076, 2979..3080, 2987..3082, 3155..3265, 3156..3263, 3170..3265		

Seq. No.	55392	Seq. ID	OJ000313_32.0419.C8
Gene No.	116068	Strand	-
Start	5452	End	11578
Name	OJ000313_32.0419.C8.o2.ts	Method	TBLASTX:Soybean
Start	3708	End	4643
GI	none	Score	80
Exons	3708..3893, 3728..3892, 3728..3907, 3729..3893, 4386..4403, 4413..4529, 4417..4515, 4589..4627, 4590..4643		

Seq. No.	55392	Seq. ID	OJ000313_32.0419.C8
Gene No.	116068	Strand	-
Start	5452	End	11578

Name	OJ000313_32.0419.C8.o1.tc	Method	TBLASTX:Cress
Start	3764	End	4640
GI	none	Score	164
Exons	3764..3907, 3765..3893, 4413..4529, 4417..4515, 4434..4520, 4589..4639, 4590..4640		

Seq. No.	55392	Seq. ID	OJ000313_32.0419.C8
Gene No.	116068	Strand	-
Start	5452	End	11578
Name	OJ000313_32.0419.C8.o3.tm	Method	TBLASTX:Maize
Start	4401	End	4660
GI	none	Score	185
Exons	4401..4517, 4414..4518, 4583..4627, 4590..4628, 4634..4660		

Seq. No.	55392	Seq. ID	OJ000313_32.0419.C8
Gene No.	116068	Strand	-
Start	5452	End	11578
Name	OJ000313_32.0419.C8.o1.gp	Method	AAT/GAP
Start	5309	End	9035
GI	67501_1.R1084	Score	952
Exons	5309..5583, 5693..5845, 5920..6015, 7746..7799, 8945..9035		
GI Descrip.	'4335719/gb|AAD17397| 5.0e-22 (AC006248) putative RING-H2 finger protein RHG1a [Arabidopsis thaliana]'		

Seq. No.	55392	Seq. ID	OJ000313_32.0419.C8
Gene No.	116068	Strand	-
Start	5452	End	11578
Name	OJ000313_32.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	5319	End	7799
GI	none	Score	39
Exons	5319..5351, 5410..5625, 5435..5581, 5440..5595, 5693..5743, 5697..5741, 5739..5846, 5741..5848, 5741..5848, 5910..6011, 5911..6018, 5918..6016, 7740..7799		

Seq. No.	55392	Seq. ID	OJ000313_32.0419.C8
Gene No.	116068	Strand	-
Start	5452	End	11578
Name	OJ000313_32.0419.C8.o2.gs	Method	GENSCAN
Start	5452	End	11535
GI	none	Score	.7
Exons	5452..5649, 5693..5845, 5920..6015, 7746..7922, 8517..9154, 9389..9459, 11460..11535		

Seq. No.	55392	Seq. ID	OJ000313_32.0419.C8
Gene No.	116068	Strand	-
Start	5452	End	11578
Name	OJ000313_32.0419.C8.o3.np	Method	AAT/NAP
Start	5452	End	8172
GI	6692739	Score	231
Exons	5452..5583, 5693..5845, 5920..6015, 8149..8172		
GI Descrip.	(AC012679) putative RING zinc finger protein [Arabidopsis thaliana]		

Seq. No.	55392	Seq. ID	OJ000313_32.0419.C8
Gene No.	116068	Strand	-
Start	5452	End	11578
Name	OJ000313_32.0419.C8.o4.np	Method	AAT/NAP

Start	7103	End	11578
GI	7340909	Score	59
Exons	7103..7199, 8592..8745, 11485..11578		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	55393	Seq. ID	OJ000313_32.0419.C9
Gene No.	116069	Strand	+
Start	9470	End	10435
Name	OJ000313_32.0419.C9.o2.np	Method	AAT/NAP
Start	8626	End	10435
GI	5430765	Score	282
Exons	8626..8691, 9451..9774, 9817..10435		
GI Descrip.	(AC007504) Hypothetical Protein [Arabidopsis thaliana]		

Seq. No.	55393	Seq. ID	OJ000313_32.0419.C9
Gene No.	116069	Strand	+
Start	9470	End	10435
Name	OJ000313_32.0419.C9.o4.gs	Method	GENSCAN
Start	9470	End	10420
GI	none	Score	.68
Exons	9470..10420		

Seq. No.	55393	Seq. ID	OJ000313_32.0419.C9
Gene No.	116070	Strand	-
Start	41	End	10275
Name	OJ000313_32.0419.C9.o1.np	Method	AAT/NAP
Start	41	End	10275
GI	322647	Score	165
Exons	41..189, 4282..4379, 5097..5437, 9503..9681, 10165..10275		
GI Descrip.	glycine-rich protein GRP22 - rape gi|17821|emb|CAA78762.1| (Z15045) glycine-rich_protein_(aa1-291) [Brassica napus]		

Seq. No.	55393	Seq. ID	OJ000313_32.0419.C9
Gene No.	116070	Strand	-
Start	41	End	10275
Name	OJ000313_32.0419.C9.o2.gs	Method	GENSCAN
Start	1033	End	2924
GI	none	Score	.53
Exons	1033..1141, 1244..1322, 2720..2924		

Seq. No.	55394	Seq. ID	OJ000313_32.0419.C10
Gene No.	116071	Strand	+
Start	88	End	3303
Name	OJ000313_32.0419.C10.o1.gs	Method	GENSCAN
Start	88	End	3059
GI	none	Score	.41
Exons	88..141, 1455..1590, 1859..2102, 2137..2156, 2491..2678, 2871..3059		

Seq. No.	55394	Seq. ID	OJ000313_32.0419.C10
Gene No.	116071	Strand	+
Start	88	End	3303
Name	OJ000313_32.0419.C10.o1.gp	Method	AAT/GAP
Start	1488	End	2102
GI	2310357	Score	780
Exons	1488..1595, 1793..2102		

Seq. No.	55394	Seq. ID	OJ000313_32.0419.C10
Gene No.	116071	Strand	+
Start	88	End	3303
Name	OJ000313_32.0419.C10.o1.np	Method	AAT/NAP
Start	1881	End	3303
GI	5103807	Score	841
Exons	1881..2102, 2193..2280, 2369..2478, 2585..2678, 2871..3059, 3181..3303		
GI Descrip.	(AC007591) Contains similarity to gb|AF014403 type-2 phosphatidic acid phosphatase alpha-2 (PAP2_a2) from Homo sapiens. ESTs gb|T88254 and gb|AA394650 come from this gene. [Arabidopsis thaliana]		

Seq. No.	55394	Seq. ID	OJ000313_32.0419.C10
Gene No.	116071	Strand	+
Start	88	End	3303
Name	OJ000313_32.0419.C10.o1.tc	Method	TBLASTX:Cress
Start	1916	End	2412
GI	none	Score	62
Exons	1916..2101, 1917..1964, 2009..2101, 2013..2105, 2235..2282, 2356..2412		

Seq. No.	55394	Seq. ID	OJ000313_32.0419.C10
Gene No.	116071	Strand	+
Start	88	End	3303
Name	OJ000313_32.0419.C10.o2.ts	Method	TBLASTX:Soybean
Start	1916	End	2433
GI	none	Score	70
Exons	1916..2101, 1917..1964, 1922..2095, 2013..2105, 2213..2275, 2235..2282, 2356..2433, 2367..2432		

Seq. No.	55394	Seq. ID	OJ000313_32.0419.C10
Gene No.	116071	Strand	+
Start	88	End	3303
Name	OJ000313_32.0419.C10.o1.tm	Method	TBLASTX:Maize
Start	1916	End	2947
GI	none	Score	215
Exons	1916..2104, 1917..2105, 2195..2278, 2235..2282, 2356..2472, 2364..2480, 2376..2480, 2575..2676, 2576..2680, 2900..2947		

Seq. No.	55394	Seq. ID	OJ000313_32.0419.C10
Gene No.	116071	Strand	+
Start	88	End	3303
Name	OJ000313_32.0419.C10.o1.ts	Method	TBLASTX:Soybean
Start	2436	End	3218
GI	none	Score	72
Exons	2436..2480, 2437..2481, 2608..2667, 2609..2668, 2869..3042, 2869..3060, 2903..3049, 3180..3218		

Seq. No.	55394	Seq. ID	OJ000313_32.0419.C10
Gene No.	116071	Strand	+
Start	88	End	3303
Name	OJ000313_32.0419.C10.o2.gp	Method	AAT/GAP
Start	2599	End	3303
GI	5771042	Score	587
Exons	2599..2678, 2871..3059, 3181..3303		
GI Descrip.	5103807/gb|AAD39637.1|AC007591_2 2.0e-37 (AC007591) Contains		

similarity to gb_AF014403 type-2 phosphatidic acid phosphatase alpha-2 (PAP2_a2) from Homo sapiens. ESTs gb_T88254 and gb_AA394650 come from this gene. [Arabidopsis thaliana]

Seq. No.	55394	Seq. ID	OJ000313_32.0419.C10
Gene No.	116071	Strand	+
Start	88	End	3303
Name	OJ000313_32.0419.C10.o1.tw	Method	TBLASTX:Wheat
Start	2621	End	3221
GI	none	Score	87
Exons	2621..2677, 2629..2667, 2863..3060, 2867..3061, 2875..3039, 2900..3049, 3179..3220, 3180..3221		

Seq. No.	55395	Seq. ID	OJ000313_32.0419.C11
Gene No.	116072	Strand	+
Start	133	End	529
Name	OJ000313_32.0419.C11.o1.gp	Method	AAT/GAP
Start	133	End	529
GI	5771042	Score	707
Exons	133..529		
GI Descrip.	5103807/gb|AAD39637.1|AC007591_2 2.0e-37 (AC007591) Contains similarity to gb_AF014403 type-2 phosphatidic acid phosphatase alpha-2 (PAP2_a2) from Homo sapiens. ESTs gb_T88254 and gb_AA394650 come from this gene. [Arabidopsis thaliana]		

Seq. No.	55395	Seq. ID	OJ000313_32.0419.C11
Gene No.	116072	Strand	+
Start	133	End	529
Name	OJ000313_32.0419.C11.o1.gs	Method	GENSCAN
Start	141	End	334
GI	none	Score	.63
Exons	141..334		

Seq. No.	55395	Seq. ID	OJ000313_32.0419.C11
Gene No.	116073	Strand	+
Start	2580	End	4613
Name	OJ000313_32.0419.C11.o2.gs	Method	GENSCAN
Start	2580	End	4613
GI	none	Score	.49
Exons	2580..2712, 4519..4613		

Seq. No.	55396	Seq. ID	OJ000313_32.0419.C12
Gene No.	116074	Strand	+
Start	2232	End	2377
Name	OJ000313_32.0419.C12.o1.gs	Method	GENSCAN
Start	2232	End	2377
GI	none	Score	.59
Exons	2232..2377		

Seq. No.	55396	Seq. ID	OJ000313_32.0419.C12
Gene No.	116075	Strand	+
Start	3633	End	4069
Name	OJ000313_32.0419.C12.o1.gp	Method	AAT/GAP
Start	3633	End	4069
GI	54197_1.R1084	Score	860
Exons	3633..4069		
GI Descrip.	'5103807/gb|AAD39637.1|AC007591_2 2.0e-37 (AC007591) Contains		

similarity to gb_AF014403 type-2 phosphatidic acid phosphatase alpha-2 (PAP2_a2) from Homo sapiens. ESTs gb_T88254 and gb_AA394650 come from this gene. [Arabidopsis thaliana]'

Seq. No.	55396	Seq. ID	OJ000313_32.0419.C12
Gene No.	116076	Strand	-
Start	2559	End	4541
Name	OJ000313_32.0419.C12.o1.np	Method	AAT/NAP
Start	2559	End	4511
GI	7485494	Score	365
Exons	2559..2611, 4090..4511		
GI Descrip.	hypothetical protein F14M4.30 - Arabidopsis thaliana gi|3522951|gb|AAC34233.1| (AC004411) putative RAV-like B3 domain DNA-binding protein [Arabidopsis thaliana]		

Seq. No.	55396	Seq. ID	OJ000313_32.0419.C12
Gene No.	116076	Strand	-
Start	2559	End	4541
Name	OJ000313_32.0419.C12.o2.gs	Method	GENSCAN
Start	3873	End	4400
GI	none	Score	.95
Exons	3873..4400		

Seq. No.	55396	Seq. ID	OJ000313_32.0419.C12
Gene No.	116076	Strand	-
Start	2559	End	4541
Name	OJ000313_32.0419.C12.o1.tm	Method	TBLASTX:Maize
Start	3879	End	4320
GI	none	Score	41
Exons	3879..3923, 3880..3924, 3938..3967, 3939..3992, 3981..4040, 3981..4043, 4086..4130, 4087..4125, 4122..4316, 4123..4266, 4165..4320, 4173..4268, 4261..4320		

Seq. No.	55396	Seq. ID	OJ000313_32.0419.C12
Gene No.	116076	Strand	-
Start	2559	End	4541
Name	OJ000313_32.0419.C12.o1.ts	Method	TBLASTX:Soybean
Start	3984	End	4431
GI	none	Score	156
Exons	3984..4043, 4089..4127, 4134..4298, 4150..4293, 4303..4401, 4323..4418, 4324..4431		

Seq. No.	55396	Seq. ID	OJ000313_32.0419.C12
Gene No.	116076	Strand	-
Start	2559	End	4541
Name	OJ000313_32.0419.C12.o1.tc	Method	TBLASTX:Cress
Start	4134	End	4412
GI	none	Score	159
Exons	4134..4319, 4144..4320, 4323..4412, 4324..4410		

Seq. No.	55396	Seq. ID	OJ000313_32.0419.C12
Gene No.	116076	Strand	-
Start	2559	End	4541
Name	OJ000313_32.0419.C12.o2.gp	Method	AAT/GAP
Start	4192	End	4541
GI	uC-osroM202001b04a1	Score	696
Exons	4192..4541		

GI Descrip.	'3868857/dbj|BAA34250| 3.0e-36 (AB013886) RAV1 [Arabidopsis thaliana]'		
Seq. No.	55397	Seq. ID	OJ000313_32.0419.C13
Gene No.	116077	Strand	+
Start	834	End	1798
Name	OJ000313_32.0419.C13.o1.gs	Method	GENSCAN
Start	834	End	1798
GI	none	Score	.44
Exons	834..885, 1512..1798		
Seq. No.	55397	Seq. ID	OJ000313_32.0419.C13
Gene No.	116078	Strand	+
Start	2178	End	2616
Name	OJ000313_32.0419.C13.o1.np	Method	AAT/NAP
Start	2178	End	2616
GI	5091507	Score	117
Exons	2178..2384, 2522..2616		
GI Descrip.	(AB023482) Hypothetical protein [Oryza sativa]		
Seq. No.	55398	Seq. ID	OJ000313_32.0419.C15
Gene No.	116079	Strand	+
Start	101	End	933
Name	OJ000313_32.0419.C15.o1.gs	Method	GENSCAN
Start	101	End	933
GI	none	Score	.67
Exons	101..141, 651..933		
Seq. No.	55398	Seq. ID	OJ000313_32.0419.C15
Gene No.	116080	Strand	-
Start	1370	End	1607
Name	OJ000313_32.0419.C15.o2.gs	Method	GENSCAN
Start	1370	End	1607
GI	none	Score	.86
Exons	1370..1459, 1545..1607		
Seq. No.	55399	Seq. ID	OJ000313_32.0419.C16
Gene No.	116081	Strand	+
Start	11650	End	13191
Name	OJ000313_32.0419.C16.o3.gs	Method	GENSCAN
Start	11650	End	13191
GI	none	Score	.78
Exons	11650..11691, 12463..13191		
Seq. No.	55399	Seq. ID	OJ000313_32.0419.C16
Gene No.	116082	Strand	-
Start	3084	End	3623
Name	OJ000313_32.0419.C16.o1.np	Method	AAT/NAP
Start	3084	End	3623
GI	6539585	Score	150
Exons	3084..3155, 3452..3623		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		
Seq. No.	55399	Seq. ID	OJ000313_32.0419.C16
Gene No.	116083	Strand	-
Start	7466	End	9786
Name	OJ000313_32.0419.C16.o2.gs	Method	GENSCAN

Start	7466	End	9786
GI	none	Score	.72
Exons	7466..7613, 7772..7848, 8153..8210, 9734..9786		

Seq. No.	55400	Seq. ID	OJ000313_32.0419.C17
Gene No.	116084	Strand	+
Start	1	End	1008
Name	OJ000313_32.0419.C17.o1.np	Method	AAT/NAP
Start	1	End	1008
GI	2072393	Score	220
Exons	1..275, 985..1008		
GI Descrip.	(U29168) similar to human Xeroderma pigmentosum group B DNA repair protein, Swiss-Prot Accession Number P19447 [Arabidopsis thaliana]		

Seq. No.	55400	Seq. ID	OJ000313_32.0419.C17
Gene No.	116084	Strand	+
Start	1	End	1008
Name	OJ000313_32.0419.C17.o1.tc	Method	TBLASTX:Cress
Start	64	End	265
GI	none	Score	284
Exons	64..114, 92..265, 160..252		

Seq. No.	55400	Seq. ID	OJ000313_32.0419.C17
Gene No.	116084	Strand	+
Start	1	End	1008
Name	OJ000313_32.0419.C17.o1.ts	Method	TBLASTX:Soybean
Start	82	End	265
GI	none	Score	257
Exons	82..252, 86..265, 107..253		

Seq. No.	55401	Seq. ID	OJ000313_32.0419.C19
Gene No.	116085	Strand	+
Start	1433	End	3269
Name	OJ000313_32.0419.C19.o1.np	Method	AAT/NAP
Start	1433	End	3269
GI	7106508	Score	356
Exons	1433..1660, 1720..1946, 3173..3269		
GI Descrip.	(AP001278) hypothetical protein [Oryza sativa]		

Seq. No.	55401	Seq. ID	OJ000313_32.0419.C19
Gene No.	116085	Strand	+
Start	1433	End	3269
Name	OJ000313_32.0419.C19.o1.gs	Method	GENSCAN
Start	1749	End	1982
GI	none	Score	.81
Exons	1749..1982		

Seq. No.	55401	Seq. ID	OJ000313_32.0419.C19
Gene No.	116086	Strand	-
Start	2515	End	2676
Name	OJ000313_32.0419.C19.o2.gs	Method	GENSCAN
Start	2515	End	2676
GI	none	Score	.59
Exons	2515..2595, 2601..2676		

Seq. No.	55402	Seq. ID	OJ000313_32.0419.C20

Gene No.	116087	Strand	+
Start	1747	End	3422
Name	OJ000313_32.0419.C20.o1.gs	Method	GENSCAN
Start	1747	End	2768
GI	none	Score	.58
Exons	1747..1997, 2688..2768		

Seq. No.	55402	Seq. ID	OJ000313_32.0419.C20
Gene No.	116087	Strand	+
Start	1747	End	3422
Name	OJ000313_32.0419.C20.o1.tm	Method	TBLASTX:Maize
Start	1751	End	3422
GI	none	Score	122
Exons	1751..1879, 1754..1930, 1758..1904, 1797..1934, 1807..1929, 1931..1993, 1933..2031, 1935..1994, 1954..2019, 2074..2214, 2079..2132, 2681..2776, 2681..2785, 2686..2802, 2877..2912, 2878..2922, 2878..2922, 3065..3103, 3223..3276, 3396..3422		

Seq. No.	55403	Seq. ID	OJ000313_32.0419.C21
Gene No.	116088	Strand	+
Start	67	End	416
Name	OJ000313_32.0419.C21.o1.gs	Method	GENSCAN
Start	67	End	416
GI	none	Score	.5
Exons	67..228, 273..416		

Seq. No.	55403	Seq. ID	OJ000313_32.0419.C21
Gene No.	116089	Strand	-
Start	2386	End	2845
Name	OJ000313_32.0419.C21.o1.np	Method	AAT/NAP
Start	2386	End	2845
GI	6979333	Score	198
Exons	2386..2845		
GI Descrip.	(AF172282) leucine rich repeat containing protein kinase [Oryza sativa]		

Seq. No.	55403	Seq. ID	OJ000313_32.0419.C21
Gene No.	116089	Strand	-
Start	2386	End	2845
Name	OJ000313_32.0419.C21.o1.tm	Method	TBLASTX:Maize
Start	2437	End	2781
GI	none	Score	58
Exons	2437..2526, 2438..2536, 2581..2772, 2582..2773, 2598..2774, 2599..2781		

Seq. No.	55404	Seq. ID	OJ000313_32.0419.C22
Gene No.	116090	Strand	-
Start	1	End	2195
Name	OJ000313_32.0419.C22.o1.np	Method	AAT/NAP
Start	1	End	2195
GI	6979333	Score	1421
Exons	1..962, 1033..2195		
GI Descrip.	(AF172282) leucine rich repeat containing protein kinase [Oryza sativa]		

Seq. No.	55404	Seq. ID	OJ000313_32.0419.C22
Gene No.	116090	Strand	-

Start	1	End	2195
Name	OJ000313_32.0419.C22.o1.gs	Method	GENSCAN
Start	306	End	2151
GI	none	Score	.65
Exons	306..417, 475..682, 1065..1266, 1329..2151		

Seq. No.	55404	Seq. ID	OJ000313_32.0419.C22
Gene No.	116091	Strand	-
Start	3981	End	6031
Name	OJ000313_32.0419.C22.o1.ts	Method	TBLASTX:Soybean
Start	10	End	5975
GI	none	Score	61
Exons	10..813, 11..259, 134..391, 287..763, 877..975, 883..990, 883..1008, 890..964, 1004..1321, 1004..1258, 1004..1210, 1007..1369, 1007..1366, 1008..1286, 1013..1366, 1014..1187, 1017..1334, 1022..1342, 1094..1366, 1396..1593, 1588..1836, 1594..1908, 1594..1785, 1603..1836, 1675..1830, 1927..2070, 5196..5447, 5262..5468, 5265..5465, 5265..5456, 5475..5672, 5478..5660, 5478..5660, 5478..5675, 5676..5828, 5676..5774, 5682..5828, 5805..5975, 5817..5975		

Seq. No.	55404	Seq. ID	OJ000313_32.0419.C22
Gene No.	116091	Strand	-
Start	3981	End	6031
Name	OJ000313_32.0419.C22.o1.tc	Method	TBLASTX:Cress
Start	17	End	5967
GI	none	Score	81
Exons	17..331, 43..210, 46..174, 50..211, 70..405, 73..348, 79..186, 151..444, 197..370, 199..351, 220..354, 295..423, 361..708, 362..715, 499..621, 511..828, 511..639, 511..753, 550..870, 583..714, 806..868, 883..1005, 1004..1216, 1007..1132, 1019..1147, 1022..1357, 1088..1357, 1360..1512, 1405..1590, 1591..1845, 1597..1731, 1603..1707, 1603..1668, 1669..1932, 1672..1809, 1732..1836, 5220..5363, 5223..5390, 5239..5373, 5259..5474, 5260..5442, 5262..5459, 5262..5411, 5293..5412, 5322..5471, 5338..5451, 5362..5472, 5378..5494, 5431..5478, 5473..5667, 5478..5675, 5478..5603, 5481..5672, 5486..5674, 5544..5675, 5550..5618, 5676..5816, 5676..5816, 5759..5818, 5826..5903, 5832..5942, 5833..5892, 5881..5967, 5898..5966		

Seq. No.	55404	Seq. ID	OJ000313_32.0419.C22
Gene No.	116091	Strand	-
Start	3981	End	6031
Name	OJ000313_32.0419.C22.o2.tm	Method	TBLASTX:Maize
Start	76	End	5972
GI	none	Score	65
Exons	76..405, 77..307, 77..406, 79..693, 79..570, 100..444, 172..804, 499..750, 751..867, 751..867, 805..834, 883..1008, 883..975, 883..999, 889..1023, 1004..1261, 1004..1345, 1004..1294, 1007..1345, 1017..1184, 1020..1133, 1040..1222, 1043..1357, 1221..1328, 1307..1357, 1405..1578, 1582..1725, 1588..1929, 1594..1830, 1768..1908, 5262..5468, 5262..5375, 5265..5480, 5265..5474, 5265..5522, 5358..5474, 5475..5645, 5478..5726, 5478..5669, 5478..5675, 5676..5831, 5802..5942, 5826..5963, 5829..5972, 5832..5972, 5832..5957		

Seq. No.	55404	Seq. ID	OJ000313_32.0419.C22

Gene No.	116091	Strand	-
Start	3981	End	6031
Name	OJ000313_32.0419.C22.o2.tw	Method	TBLASTX:Wheat
Start	145	End	5954
GI	none	Score	67
Exons	145..348, 208..414, 280..447, 334..564, 353..517, 532..882, 889..969, 1004..1147, 1405..1587, 1696..1929, 5226..5333, 5316..5405, 5643..5831, 5817..5954		

Seq. No.	55404	Seq. ID	OJ000313_32.0419.C22
Gene No.	116091	Strand	-
Start	3981	End	6031
Name	OJ000313_32.0419.C22.o2.tc	Method	TBLASTX:Cress
Start	1933	End	4991
GI	none	Score	253
Exons	1933..1995, 2005..2067, 3999..4115, 4242..4346, 4443..4508, 4506..4991		

Seq. No.	55404	Seq. ID	OJ000313_32.0419.C22
Gene No.	116091	Strand	-
Start	3981	End	6031
Name	OJ000313_32.0419.C22.o2.np	Method	AAT/NAP
Start	3969	End	6031
GI	6979333	Score	1327
Exons	3969..4345, 4442..6031		
GI Descrip.	(AF172282) leucine rich repeat containing protein kinase [Oryza sativa]		

Seq. No.	55404	Seq. ID	OJ000313_32.0419.C22
Gene No.	116091	Strand	-
Start	3981	End	6031
Name	OJ000313_32.0419.C22.o2.gs	Method	GENSCAN
Start	3981	End	5873
GI	none	Score	.53
Exons	3981..4345, 4442..5153, 5258..5283, 5420..5873		

Seq. No.	55404	Seq. ID	OJ000313_32.0419.C22
Gene No.	116091	Strand	-
Start	3981	End	6031
Name	OJ000313_32.0419.C22.o2.ts	Method	TBLASTX:Soybean
Start	3991	End	4997
GI	none	Score	89
Exons	3991..4038, 4132..4317, 4134..4346, 4443..4661, 4444..4584, 4698..4997		

Seq. No.	55404	Seq. ID	OJ000313_32.0419.C22
Gene No.	116091	Strand	-
Start	3981	End	6031
Name	OJ000313_32.0419.C22.o1.tm	Method	TBLASTX:Maize
Start	4245	End	4997
GI	none	Score	84
Exons	4245..4346, 4252..4347, 4443..4661, 4683..4997		

Seq. No.	55404	Seq. ID	OJ000313_32.0419.C22
Gene No.	116091	Strand	-
Start	3981	End	6031
Name	OJ000313_32.0419.C22.o1.tw	Method	TBLASTX:Wheat

Start	4536	End	4845
GI	none	Score	105
Exons	4536..4811, 4536..4844, 4690..4845		

Seq. No.	55405	Seq. ID	OJ000313_32.0419.C23
Gene No.	116092	Strand	-
Start	1	End	926
Name	OJ000313_32.0419.C23.o1.np	Method	AAT/NAP
Start	1	End	926
GI	6979333	Score	482
Exons	1..758, 809..926		
GI Descrip.	(AF172282) leucine rich repeat containing protein kinase [Oryza sativa]		

Seq. No.	55405	Seq. ID	OJ000313_32.0419.C23
Gene No.	116092	Strand	-
Start	1	End	926
Name	OJ000313_32.0419.C23.o1.gs	Method	GENSCAN
Start	108	End	850
GI	none	Score	.84
Exons	108..850		

Seq. No.	55405	Seq. ID	OJ000313_32.0419.C23
Gene No.	116093	Strand	-
Start	1882	End	2747
Name	OJ000313_32.0419.C23.o1.tm	Method	TBLASTX:Maize
Start	42	End	607
GI	none	Score	62
Exons	42..191, 49..147, 266..400, 281..400, 488..607		

Seq. No.	55405	Seq. ID	OJ000313_32.0419.C23
Gene No.	116093	Strand	-
Start	1882	End	2747
Name	OJ000313_32.0419.C23.o1.ts	Method	TBLASTX:Soybean
Start	42	End	616
GI	none	Score	60
Exons	42..191, 63..158, 257..406, 281..400, 488..607, 488..574, 494..607, 497..616		

Seq. No.	55405	Seq. ID	OJ000313_32.0419.C23
Gene No.	116093	Strand	-
Start	1882	End	2747
Name	OJ000313_32.0419.C23.o1.tc	Method	TBLASTX:Cress
Start	45	End	763
GI	none	Score	39
Exons	45..131, 63..173, 63..173, 63..173, 63..167, 63..179, 66..167, 66..173, 143..253, 188..244, 189..245, 194..253, 257..403, 263..505, 266..400, 278..400, 281..400, 281..391, 281..391, 281..400, 281..400, 281..406, 281..406, 284..400, 344..406, 353..400, 488..610, 488..616, 488..607, 494..607, 494..586, 497..616, 641..763		

Seq. No.	55405	Seq. ID	OJ000313_32.0419.C23
Gene No.	116093	Strand	-
Start	1882	End	2747
Name	OJ000313_32.0419.C23.o2.gs	Method	GENSCAN
Start	1882	End	2747

GI	none	Score	.43
Exons	1882..2031, 2602..2747		

Seq. No.	55406	Seq. ID	OJ000313_32.0419.C24
Gene No.	116094	Strand	+
Start	257	End	10349
Name	OJ000313_32.0419.C24.o1.np	Method	AAT/NAP
Start	257	End	9144
GI	6714302	Score	343
Exons	257..349, 632..699, 926..999, 1504..1562, 1633..1709, 9082..9144		
GI Descrip.	(AC013354) F15H18.8 [Arabidopsis thaliana]		

Seq. No.	55406	Seq. ID	OJ000313_32.0419.C24
Gene No.	116094	Strand	+
Start	257	End	10349
Name	OJ000313_32.0419.C24.o1.gs	Method	GENSCAN
Start	265	End	1508
GI	none	Score	.51
Exons	265..339, 926..977, 1504..1508		

Seq. No.	55406	Seq. ID	OJ000313_32.0419.C24
Gene No.	116094	Strand	+
Start	257	End	10349
Name	OJ000313_32.0419.C24.o1.gp	Method	AAT/GAP
Start	791	End	2078
GI	uC-osflcyp023b02b1	Score	894
Exons	791..837, 926..999, 1504..1562, 1633..1709, 1818..2078		
GI Descrip.	'2499987/sp|P96386|PTH_MYCTU 5.0e-16 PEPTIDYL-TRNA HYDROLASE (PTH) >gi_1870014_emb_CAB06865_ (Z92539) pth [Mycobacterium tuberculosis]'		

Seq. No.	55406	Seq. ID	OJ000313_32.0419.C24
Gene No.	116094	Strand	+
Start	257	End	10349
Name	OJ000313_32.0419.C24.o2.np	Method	AAT/NAP
Start	4088	End	5686
GI	7488373	Score	1858
Exons	4088..5686		
GI Descrip.	threonine synthase (EC 4.2.99.2) precursor - Arabidopsis thaliana gi|4850369|dbj|BAA77707.1| (AB027151) threonine synthase [Arabidopsis thaliana] gi|4914408|emb|CAB43659.1| (AL050352) threonine synthase [Arabidopsis thaliana] gi|7269883|emb|CAB79742.1| (AL161575) threonine synthase [Arabidopsis thaliana]		

Seq. No.	55406	Seq. ID	OJ000313_32.0419.C24
Gene No.	116094	Strand	+
Start	257	End	10349
Name	OJ000313_32.0419.C24.o2.gs	Method	GENSCAN
Start	4103	End	5680
GI	none	Score	.65
Exons	4103..5680		

Seq. No.	55406	Seq. ID	OJ000313_32.0419.C24
Gene No.	116094	Strand	+
Start	257	End	10349
Name	OJ000313_32.0419.C24.o4.np	Method	AAT/NAP

Start	8172	End	8620
GI	128191	Score	382
Exons	8172..8620		
GI Descrip.	NITRATE REDUCTASE [NAD(P)H] gi|66210|pir||RDBHNP nitrate reductase (NAD(P)H) (EC 1.6.6.2) - barley gi|19065|emb|CAA42739| (X60173) nitrate reductase (NAD(P)H) [Hordeum vulgare]		

Seq. No.	55406	Seq. ID	OJ000313_32.0419.C24
Gene No.	116094	Strand	+
Start	257	End	10349
Name	OJ000313_32.0419.C24.o5.np	Method	AAT/NAP
Start	8797	End	10349
GI	4680191	Score	60
Exons	8797..8822, 9304..9343, 10257..10349		
GI Descrip.	(AF111710) putative myb-related protein [Oryza sativa subsp. indica]		

Seq. No.	55406	Seq. ID	OJ000313_32.0419.C24
Gene No.	116095	Strand	-
Start	5058	End	9678
Name	OJ000313_32.0419.C24.o4.tm	Method	TBLASTX:Maize
Start	1505	End	1727
GI	none	Score	98
Exons	1505..1567, 1507..1566, 1631..1711, 1632..1727		

Seq. No.	55406	Seq. ID	OJ000313_32.0419.C24
Gene No.	116095	Strand	-
Start	5058	End	9678
Name	OJ000313_32.0419.C24.o2.tm	Method	TBLASTX:Maize
Start	4139	End	4681
GI	none	Score	46
Exons	4139..4183, 4243..4356, 4271..4342, 4277..4681, 4382..4681		

Seq. No.	55406	Seq. ID	OJ000313_32.0419.C24
Gene No.	116095	Strand	-
Start	5058	End	9678
Name	OJ000313_32.0419.C24.o1.ts	Method	TBLASTX:Soybean
Start	4271	End	5674
GI	none	Score	57
Exons	4271..4318, 4385..4645, 4417..4638, 4631..4741, 4654..4752, 4655..4759, 4754..5674, 4771..5655, 4856..5674		

Seq. No.	55406	Seq. ID	OJ000313_32.0419.C24
Gene No.	116095	Strand	-
Start	5058	End	9678
Name	OJ000313_32.0419.C24.o1.tc	Method	TBLASTX:Cress
Start	4385	End	5674
GI	none	Score	402
Exons	4385..4654, 4406..4645, 4417..4653, 4645..4752, 4655..4759, 4753..5652, 4754..5665, 4847..5674		

Seq. No.	55406	Seq. ID	OJ000313_32.0419.C24
Gene No.	116095	Strand	-
Start	5058	End	9678
Name	OJ000313_32.0419.C24.o3.tm	Method	TBLASTX:Maize
Start	4682	End	4954
GI	none	Score	371

Exons	4682..4954, 4682..4744, 4684..4929, 4850..4954		
Seq. No.	55406	Seq. ID	OJ000313_32.0419.C24
Gene No.	116095	Strand	-
Start	5058	End	9678
Name	OJ000313_32.0419.C24.o1.tm	Method	TBLASTX:Maize
Start	4955	End	5689
GI	none	Score	1070
Exons	4955..5689, 4955..5275, 4957..5688		
Seq. No.	55406	Seq. ID	OJ000313_32.0419.C24
Gene No.	116095	Strand	-
Start	5058	End	9678
Name	OJ000313_32.0419.C24.o3.np	Method	AAT/NAP
Start	5058	End	9678
GI	730146	Score	114
Exons	5058..5080, 8047..8208, 9596..9678		
GI Descrip.	NITRATE REDUCTASE (NR) gi|632154|pir||S47029 nitrate reductase (NADH) (EC 1.6.6.1) nia - Lotus japonicus gi|517356|emb|CAA56696.1| (X80670) nitrate reductase (NADH) [Lotus japonicus]		
Seq. No.	55406	Seq. ID	OJ000313_32.0419.C24
Gene No.	116095	Strand	-
Start	5058	End	9678
Name	OJ000313_32.0419.C24.o1.tw	Method	TBLASTX:Wheat
Start	5074	End	5683
GI	none	Score	794
Exons	5074..5568, 5075..5569, 5075..5569, 5570..5683, 5597..5680, 5599..5682		
Seq. No.	55406	Seq. ID	OJ000313_32.0419.C24
Gene No.	116095	Strand	-
Start	5058	End	9678
Name	OJ000313_32.0419.C24.o2.ts	Method	TBLASTX:Soybean
Start	8038	End	8610
GI	none	Score	53
Exons	8038..8112, 8051..8119, 8055..8120, 8083..8196, 8107..8133, 8119..8199, 8120..8197, 8121..8198, 8289..8363, 8357..8404, 8393..8572, 8407..8610, 8439..8609		
Seq. No.	55406	Seq. ID	OJ000313_32.0419.C24
Gene No.	116095	Strand	-
Start	5058	End	9678
Name	OJ000313_32.0419.C24.o2.tc	Method	TBLASTX:Cress
Start	8051	End	8618
GI	none	Score	92
Exons	8051..8119, 8119..8199, 8121..8198, 8407..8616, 8407..8601, 8439..8618		
Seq. No.	55407	Seq. ID	OJ000313_32.0419.C25
Gene No.	116096	Strand	-
Start	1	End	1242
Name	OJ000313_32.0419.C25.o1.np	Method	AAT/NAP
Start	1	End	1242
GI	7487888	Score	332
Exons	1..44, 658..967, 1051..1242		

GI Descrip. hypothetical protein T9J22.30 - Arabidopsis thaliana gi|2739387|gb|AAC14510.1| (AC002505) En/Spm-like transposon protein [Arabidopsis thaliana]

Seq. No.	55407	Seq. ID	OJ000313_32.0419.C25
Gene No.	116096	Strand	-
Start	1	End	1242
Name	OJ000313_32.0419.C25.o1.gs	Method	GENSCAN
Start	521	End	1164
GI	none	Score	.68
Exons	521..972, 1056..1164		

Seq. No.	55407	Seq. ID	OJ000313_32.0419.C25
Gene No.	116096	Strand	-
Start	1	End	1242
Name	OJ000313_32.0419.C25.o1.tm	Method	TBLASTX:Maize
Start	638	End	971
GI	none	Score	186
Exons	638..970, 708..971		

Seq. No.	55407	Seq. ID	OJ000313_32.0419.C25
Gene No.	116096	Strand	-
Start	1	End	1242
Name	OJ000313_32.0419.C25.o1.ts	Method	TBLASTX:Soybean
Start	671	End	988
GI	none	Score	67
Exons	671..877, 711..821, 869..988,	885..974	

Seq. No.	55407	Seq. ID	OJ000313_32.0419.C25
Gene No.	116096	Strand	-
Start	1	End	1242
Name	OJ000313_32.0419.C25.o1.tw	Method	TBLASTX:Wheat
Start	737	End	1242
GI	none	Score	51
Exons	737..892, 887..973, 897..986,	1096..1242, 1097..1222	

Seq. No.	55408	Seq. ID	OJ000313_32.0419.C26
Gene No.	116097	Strand	-
Start	522	End	690
Name	OJ000313_32.0419.C26.o1.gs	Method	GENSCAN
Start	522	End	690
GI	none	Score	.68
Exons	522..690		

Seq. No.	55409	Seq. ID	OJ000313_38.0418.C1
Gene No.	116098	Strand	-
Start	763	End	933
Name	OJ000313_38.0418.C1.o1.gs	Method	GENSCAN
Start	763	End	933
GI	none	Score	.59
Exons	763..933		

Seq. No.	55410	Seq. ID	OJ000313_38.0418.C2
Gene No.	116099	Strand	+
Start	598	End	1152
Name	OJ000313_38.0418.C2.o1.gs	Method	GENSCAN
Start	598	End	1152

GI	none	Score	.92
Exons	598..1152		

Seq. No.	55411	Seq. ID	OJ000313_38.0418.C4
Gene No.	116100	Strand	+
Start	1	End	495
Name	OJ000313_38.0418.C4.o1.np	Method	AAT/NAP
Start	1	End	257
GI	7228438	Score	163
Exons	1..257		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog (AC003981) [Oryza sativa]		

Seq. No.	55411	Seq. ID	OJ000313_38.0418.C4
Gene No.	116100	Strand	+
Start	1	End	495
Name	OJ000313_38.0418.C4.o1.gs	Method	GENSCAN
Start	63	End	495
GI	none	Score	.59
Exons	63..257, 343..495		

Seq. No.	55412	Seq. ID	OJ000313_38.0418.C7
Gene No.	116101	Strand	+
Start	747	End	962
Name	OJ000313_38.0418.C7.o1.gs	Method	GENSCAN
Start	747	End	962
GI	none	Score	.85
Exons	747..962		

Seq. No.	55413	Seq. ID	OJ000313_38.0418.C8
Gene No.	116102	Strand	+
Start	425	End	3114
Name	OJ000313_38.0418.C8.o1.gs	Method	GENSCAN
Start	425	End	3114
GI	none	Score	.53
Exons	425..525, 694..870, 898..1029, 1312..1384, 3041..3114		

Seq. No.	55413	Seq. ID	OJ000313_38.0418.C8
Gene No.	116103	Strand	-
Start	1	End	1499
Name	OJ000313_38.0418.C8.o1.np	Method	AAT/NAP
Start	1	End	1499
GI	6983857	Score	1220
Exons	1..88, 120..578, 747..1307, 1370..1499		
GI Descrip.	(AP001168) hypothetical protein [Oryza sativa]		

Seq. No.	55413	Seq. ID	OJ000313_38.0418.C8
Gene No.	116104	Strand	-
Start	2425	End	3177
Name	OJ000313_38.0418.C8.o2.np	Method	AAT/NAP
Start	2425	End	3177
GI	4680186	Score	190
Exons	2425..2603, 3103..3177		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	55413	Seq. ID	OJ000313_38.0418.C8

Gene No.	116105	Strand	-
Start	3932	End	5004
Name	OJ000313_38.0418.C8.o2.gs	Method	GENSCAN
Start	3932	End	5004
GI	none	Score	.4
Exons	3932..3996, 4854..5004		

Seq. No.	55414	Seq. ID	OJ000313_38.0418.C10
Gene No.	116106	Strand	+
Start	1	End	452
Name	OJ000313_38.0418.C10.o1.gp	Method	AAT/GAP
Start	1	End	452
GI	5607585	Score	777
Exons	1..452		

Seq. No.	55414	Seq. ID	OJ000313_38.0418.C10
Gene No.	116106	Strand	+
Start	1	End	452
Name	OJ000313_38.0418.C10.o1.np	Method	AAT/NAP
Start	1	End	260
GI	3786008	Score	91
Exons	1..260		
GI Descrip.	(AC005499) unknown protein [Arabidopsis thaliana]		

Seq. No.	55414	Seq. ID	OJ000313_38.0418.C10
Gene No.	116106	Strand	+
Start	1	End	452
Name	OJ000313_38.0418.C10.o1.gs	Method	GENSCAN
Start	15	End	287
GI	none	Score	.99
Exons	15..287		

Seq. No.	55415	Seq. ID	OJ000313_38.0418.C11
Gene No.	116107	Strand	+
Start	5424	End	6598
Name	OJ000313_38.0418.C11.o2.gs	Method	GENSCAN
Start	5424	End	6598
GI	none	Score	.74
Exons	5424..5859, 6042..6598		

Seq. No.	55415	Seq. ID	OJ000313_38.0418.C11
Gene No.	116108	Strand	-
Start	3071	End	7584
Name	OJ000313_38.0418.C11.o1.gs	Method	GENSCAN
Start	3071	End	4441
GI	none	Score	1
Exons	3071..4441		

Seq. No.	55415	Seq. ID	OJ000313_38.0418.C11
Gene No.	116108	Strand	-
Start	3071	End	7584
Name	OJ000313_38.0418.C11.o1.np	Method	AAT/NAP
Start	4217	End	7584
GI	728868	Score	109
Exons	4217..4430, 6479..6521, 7491..7584		
GI Descrip.	ANTER-SPECIFIC PROLINE-RICH PROTEIN APG (PROTEIN CEX) gi|99824|pir||S16748 proline-rich protein - rape (fragment)		

gi|22597|emb|CAA42924| (X60376) proline-rich protein [Brassica napus]

Seq. No.	55415	Seq. ID	OJ000313_38.0418.C11
Gene No.	116108	Strand	-
Start	3071	End	7584
Name	OJ000313_38.0418.C11.o3.gs	Method	GENSCAN
Start	7247	End	7562
GI	none	Score	.84
Exons	7247..7276, 7452..7562		

Seq. No.	55415	Seq. ID	OJ000313_38.0418.C11
Gene No.	116109	Strand	-
Start	8079	End	8146
Name	OJ000313_38.0418.C11.o1.gp	Method	AAT/GAP
Start	8079	End	8146
GI	LIB3431-030-P1-N1-G8	Score	87
Exons	8079..8146		
GI Descrip.	'5670155/gb|AF161269.1|AF161269 4.0e-86 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence'		

Seq. No.	55416	Seq. ID	OJ000313_38.0418.C12
Gene No.	116110	Strand	+
Start	1	End	30987
Name	OJ000313_38.0418.C12.o2.np	Method	AAT/NAP
Start	1	End	30987
GI	5734621	Score	186
Exons	1..40, 6414..6507, 9167..9219, 11556..11924, 30956..30987		
GI Descrip.	(AP000391) ESTs AU067992(C11433),AU077424(C11433) correspond to a region of the predicted gene.; Similar to ABC transporter-7 (U43892) [Oryza sativa]		

Seq. No.	55416	Seq. ID	OJ000313_38.0418.C12
Gene No.	116110	Strand	+
Start	1	End	30987
Name	OJ000313_38.0418.C12.o2.gs	Method	GENSCAN
Start	2376	End	3575
GI	none	Score	.48
Exons	2376..3575		

Seq. No.	55416	Seq. ID	OJ000313_38.0418.C12
Gene No.	116110	Strand	+
Start	1	End	30987
Name	OJ000313_38.0418.C12.o5.gs	Method	GENSCAN
Start	12307	End	13662
GI	none	Score	1
Exons	12307..13662		

Seq. No.	55416	Seq. ID	OJ000313_38.0418.C12
Gene No.	116110	Strand	+
Start	1	End	30987
Name	OJ000313_38.0418.C12.o4.np	Method	AAT/NAP
Start	14788	End	17023
GI	7489567	Score	395
Exons	14788..14864, 16458..16553, 16644..16713, 16820..17023		
GI Descrip.	protein kinase cdc2 homolog - rice gi|1944504|dbj|BAA19553.1| (D64036) protein cdc2 kinase [Oryza sativa]		

Seq. No.	55416	Seq. ID	OJ000313_38.0418.C12
Gene No.	116110	Strand	+
Start	1	End	30987
Name	OJ000313_38.0418.C12.o2.gp	Method	AAT/GAP
Start	16460	End	16943
GI	627_1.R1084	Score	460
Exons	16460..16552, 16643..16713, 16820..16943		
GI Descrip.	'5670155/gb|AF161269.1|AF161269 4.0e-86 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence'		

Seq. No.	55416	Seq. ID	OJ000313_38.0418.C12
Gene No.	116110	Strand	+
Start	1	End	30987
Name	OJ000313_38.0418.C12.o9.gs	Method	GENSCAN
Start	27453	End	30924
GI	none	Score	.47
Exons	27453..28693, 28699..28756, 29708..29896, 30227..30924		

Seq. No.	55416	Seq. ID	OJ000313_38.0418.C12
Gene No.	116111	Strand	-
Start	1	End	1620
Name	OJ000313_38.0418.C12.o1.np	Method	AAT/NAP
Start	1	End	1620
GI	7228442	Score	1432
Exons	1..144, 198..1620		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog. (AC003981) [Oryza sativa]		

Seq. No.	55416	Seq. ID	OJ000313_38.0418.C12
Gene No.	116111	Strand	-
Start	1	End	1620
Name	OJ000313_38.0418.C12.o1.gs	Method	GENSCAN
Start	38	End	1263
GI	none	Score	.63
Exons	38..217, 271..1263		

Seq. No.	55416	Seq. ID	OJ000313_38.0418.C12
Gene No.	116112	Strand	-
Start	14207	End	14316
Name	OJ000313_38.0418.C12.o1.gp	Method	AAT/GAP
Start	14207	End	14316
GI	uC-osflcyp082b07a1	Score	159
Exons	14207..14316		
GI Descrip.	'218221/dbj|D10675|RICSINE1R6 3.0e-30 Oryza sativa p-SINE1-r6 gene, repeat sequence'		

Seq. No.	55416	Seq. ID	OJ000313_38.0418.C12
Gene No.	116113	Strand	-
Start	16089	End	16585
Name	OJ000313_38.0418.C12.o3.np	Method	AAT/NAP
Start	16089	End	16585
GI	6630683	Score	182
Exons	16089..16242, 16322..16585		
GI Descrip.	(AP000969) EST C25991(C11435) corresponds to a region of the predicted gene.; Similar to similar to PHZF, catalyzing the		

hydroxylation of phenazine-1-carboxylic acid to 2-hydroxy-phenazine-1-carboxylic acid. (AC004044) [Oryza... gi|6815075|dbj|BAA90362.1| (AP001080) EST C25991(C11435) corresponds to a region of the predicted gene.; Similar to similar to PHZF, catalyzing

Seq. No.	55416	Seq. ID	OJ000313_38.0418.C12
Gene No.	116114	Strand	-
Start	25374	End	26567
Name	OJ000313_38.0418.C12.o3.tm	Method	TBLASTX:Maize
Start	220	End	585
GI	none	Score	155
Exons	220..585, 236..580		

Seq. No.	55416	Seq. ID	OJ000313_38.0418.C12
Gene No.	116114	Strand	-
Start	25374	End	26567
Name	OJ000313_38.0418.C12.o1.tm	Method	TBLASTX:Maize
Start	16306	End	16943
GI	none	Score	35
Exons	16306..16347, 16457..16552, 16459..16551, 16470..16553, 16634..16714, 16636..16713, 16814..16930, 16818..16940, 16819..16941, 16821..16943		

Seq. No.	55416	Seq. ID	OJ000313_38.0418.C12
Gene No.	116114	Strand	-
Start	25374	End	26567
Name	OJ000313_38.0418.C12.o1.ts	Method	TBLASTX:Soybean
Start	16447	End	16946
GI	none	Score	72
Exons	16447..16548, 16457..16552, 16459..16551, 16634..16714, 16818..16946		

Seq. No.	55416	Seq. ID	OJ000313_38.0418.C12
Gene No.	116114	Strand	-
Start	25374	End	26567
Name	OJ000313_38.0418.C12.o1.tc	Method	TBLASTX:Cress
Start	16457	End	16946
GI	none	Score	156
Exons	16457..16552, 16459..16551, 16634..16714, 16814..16900, 16818..16946		

Seq. No.	55416	Seq. ID	OJ000313_38.0418.C12
Gene No.	116114	Strand	-
Start	25374	End	26567
Name	OJ000313_38.0418.C12.o2.tm	Method	TBLASTX:Maize
Start	23220	End	23508
GI	none	Score	154
Exons	23220..23507, 23278..23508		

Seq. No.	55416	Seq. ID	OJ000313_38.0418.C12
Gene No.	116114	Strand	-
Start	25374	End	26567
Name	OJ000313_38.0418.C12.o8.gs	Method	GENSCAN
Start	25374	End	26567
GI	none	Score	.69
Exons	25374..26567		

Seq. No.	55417	Seq. ID	OJ000313_38.0418.C13
Gene No.	116115	Strand	+
Start	41	End	475
Name	OJ000313_38.0418.C13.o1.gs	Method	GENSCAN
Start	41	End	475
GI	none	Score	.99
Exons	41..475		

Seq. No.	55417	Seq. ID	OJ000313_38.0418.C13
Gene No.	116116	Strand	+
Start	2098	End	5368
Name	OJ000313_38.0418.C13.o2.gs	Method	GENSCAN
Start	2098	End	5368
GI	none	Score	.69
Exons	2098..2242, 2471..2548, 2763..2954, 3969..5368		

Seq. No.	55417	Seq. ID	OJ000313_38.0418.C13
Gene No.	116117	Strand	+
Start	8627	End	9119
Name	OJ000313_38.0418.C13.o2.gp	Method	AAT/GAP
Start	8627	End	9119
GI	38782_1.R1084	Score	804
Exons	8627..9119		
GI Descrip.	'6069643/dbj|AP000616.1|AP000616 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	55417	Seq. ID	OJ000313_38.0418.C13
Gene No.	116118	Strand	-
Start	6845	End	8280
Name	OJ000313_38.0418.C13.o1.np	Method	AAT/NAP
Start	6845	End	8280
GI	6907088	Score	972
Exons	6845..7244, 7730..7967, 8143..8280		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	55417	Seq. ID	OJ000313_38.0418.C13
Gene No.	116118	Strand	-
Start	6845	End	8280
Name	OJ000313_38.0418.C13.o1.gp	Method	AAT/GAP
Start	7277	End	7469
GI	5667165	Score	333
Exons	7277..7469		
GI Descrip.	5670155/gb|AF161269.1|AF161269 4.0e-86 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence		

Seq. No.	55418	Seq. ID	OJ000323_38.0418.C1
Gene No.	116119	Strand	+
Start	1	End	738
Name	OJ000323_38.0418.C1.o1.np	Method	AAT/NAP
Start	1	End	738
GI	7486948	Score	620
Exons	1..321, 419..577, 664..738		
GI Descrip.	hypothetical protein T13E15.9 - Arabidopsis thaliana gi|2344894|gb|AAC31834.1| (AC002388) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55418	Seq. ID	OJ000323_38.0418.C1
Gene No.	116119	Strand	+
Start	1	End	738
Name	OJ000323_38.0418.C1.o1.tm	Method	TBLASTX:Maize
Start	6	End	738
GI	none	Score	67
Exons	6..77, 6..326, 10..336, 214..318, 416..577, 418..585, 419..508, 419..586, 428..499, 434..562, 495..602, 663..737, 670..702, 681..737, 700..738		

Seq. No.	55418	Seq. ID	OJ000323_38.0418.C1
Gene No.	116119	Strand	+
Start	1	End	738
Name	OJ000323_38.0418.C1.o1.gs	Method	GENSCAN
Start	19	End	734
GI	none	Score	.63
Exons	19..321, 419..563, 664..734		

Seq. No.	55418	Seq. ID	OJ000323_38.0418.C1
Gene No.	116119	Strand	+
Start	1	End	738
Name	OJ000323_38.0418.C1.o1.ts	Method	TBLASTX:Soybean
Start	416	End	565
GI	none	Score	208
Exons	416..565, 416..556, 466..564		

Seq. No.	55419	Seq. ID	OJ000323_38.0418.C2
Gene No.	116120	Strand	+
Start	1	End	1606
Name	OJ000323_38.0418.C2.o1.np	Method	AAT/NAP
Start	1	End	1606
GI	7486948	Score	479
Exons	1..101, 760..887, 997..1084, 1463..1606		
GI Descrip.	hypothetical protein T13E15.9 - Arabidopsis thaliana gi|2344894|gb|AAC31834.1| (AC002388) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55419	Seq. ID	OJ000323_38.0418.C2
Gene No.	116120	Strand	+
Start	1	End	1606
Name	OJ000323_38.0418.C2.o1.ts	Method	TBLASTX:Soybean
Start	2	End	1558
GI	none	Score	141
Exons	2..100, 3..107, 3..110, 6..77, 749..889, 757..891, 972..1085, 979..1086, 992..1087, 992..1087, 1003..1086, 1463..1528, 1466..1558		

Seq. No.	55419	Seq. ID	OJ000323_38.0418.C2
Gene No.	116120	Strand	+
Start	1	End	1606
Name	OJ000323_38.0418.C2.o1.gs	Method	GENSCAN
Start	21	End	1557
GI	none	Score	.98
Exons	21..101, 760..887, 997..1084, 1463..1557		

Seq. No.	55419	Seq. ID	OJ000323_38.0418.C2
Gene No.	116120	Strand	+

Start	1	End	1606
Name	OJ000323_38.0418.C2.o1.tm	Method	TBLASTX:Maize
Start	830	End	1580
GI	none	Score	57
Exons	830..886, 830..886, 832..891, 841..888, 992..1087, 992..1087, 992..1090, 994..1086, 1003..1086, 1462..1545, 1463..1555, 1466..1558, 1476..1580		

Seq. No.	55420	Seq. ID	OJ000323_38.0418.C3
Gene No.	116121	Strand	+
Start	1	End	1065
Name	OJ000323_38.0418.C3.o1.np	Method	AAT/NAP
Start	1	End	1065
GI	7486948	Score	198
Exons	1..24, 883..1065		
GI Descrip.	hypothetical protein T13E15.9 - Arabidopsis thaliana gi|2344894|gb|AAC31834.1| (AC002388) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55420	Seq. ID	OJ000323_38.0418.C3
Gene No.	116121	Strand	+
Start	1	End	1065
Name	OJ000323_38.0418.C3.o1.gp	Method	AAT/GAP
Start	759	End	1059
GI	426268	Score	581
Exons	759..1059		
GI Descrip.	2344894 2.0e-17 (AC002388) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55420	Seq. ID	OJ000323_38.0418.C3
Gene No.	116122	Strand	-
Start	1223	End	2000
Name	OJ000323_38.0418.C3.o1.ts	Method	TBLASTX:Soybean
Start	861	End	1067
GI	none	Score	243
Exons	861..1067, 880..1059, 901..996		

Seq. No.	55420	Seq. ID	OJ000323_38.0418.C3
Gene No.	116122	Strand	-
Start	1223	End	2000
Name	OJ000323_38.0418.C3.o1.tm	Method	TBLASTX:Maize
Start	877	End	1069
GI	none	Score	285
Exons	877..1062, 881..1069, 882..1061		

Seq. No.	55420	Seq. ID	OJ000323_38.0418.C3
Gene No.	116122	Strand	-
Start	1223	End	2000
Name	OJ000323_38.0418.C3.o1.gs	Method	GENSCAN
Start	1223	End	2000
GI	none	Score	.77
Exons	1223..1304, 1519..1597, 1928..2000		

Seq. No.	55421	Seq. ID	OJ000323_38.0418.C4
Gene No.	116123	Strand	+
Start	1	End	840
Name	OJ000323_38.0418.C4.o1.np	Method	AAT/NAP

Start	1	End	810
GI	7486948	Score	271
Exons	1..40, 228..312, 637..810		
GI Descrip.	hypothetical protein T13E15.9 - Arabidopsis thaliana gi|2344894|gb|AAC31834.1| (AC002388) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55421	Seq. ID	OJ000323_38.0418.C4
Gene No.	116123	Strand	+
Start	1	End	840
Name	OJ000323_38.0418.C4.o1.tm	Method	TBLASTX:Maize
Start	2	End	840
GI	none	Score	59
Exons	2..52, 3..38, 5..40, 193..321, 224..310, 226..312, 628..840, 634..690, 636..827		

Seq. No.	55422	Seq. ID	OJ000323_38.0418.C5
Gene No.	116124	Strand	-
Start	1	End	2524
Name	OJ000323_38.0418.C5.o1.np	Method	AAT/NAP
Start	1	End	1739
GI	6997177	Score	1012
Exons	1..1089, 1634..1739		
GI Descrip.	(AC023839) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55422	Seq. ID	OJ000323_38.0418.C5
Gene No.	116124	Strand	-
Start	1	End	2524
Name	OJ000323_38.0418.C5.o1.gs	Method	GENSCAN
Start	28	End	1222
GI	none	Score	.98
Exons	28..1222		

Seq. No.	55422	Seq. ID	OJ000323_38.0418.C5
Gene No.	116124	Strand	-
Start	1	End	2524
Name	OJ000323_38.0418.C5.o2.tm	Method	TBLASTX:Maize
Start	122	End	460
GI	none	Score	46
Exons	122..187, 125..187, 227..460, 228..368		

Seq. No.	55422	Seq. ID	OJ000323_38.0418.C5
Gene No.	116124	Strand	-
Start	1	End	2524
Name	OJ000323_38.0418.C5.o1.tw	Method	TBLASTX:Wheat
Start	134	End	545
GI	none	Score	64
Exons	134..379, 146..271, 189..386, 369..518, 371..538, 371..544, 381..545		

Seq. No.	55422	Seq. ID	OJ000323_38.0418.C5
Gene No.	116124	Strand	-
Start	1	End	2524
Name	OJ000323_38.0418.C5.o1.tm	Method	TBLASTX:Maize
Start	461	End	889
GI	none	Score	87
Exons	461..559, 462..545, 563..889, 564..881		

Seq. No.	55422	Seq. ID	OJ000323_38.0418.C5
Gene No.	116124	Strand	-
Start	1	End	2524
Name	OJ000323_38.0418.C5.o2.tw	Method	TBLASTX:Wheat
Start	680	End	1054
GI	none	Score	91
Exons	680..1054, 789..980, 938..1012		

Seq. No.	55422	Seq. ID	OJ000323_38.0418.C5
Gene No.	116124	Strand	-
Start	1	End	2524
Name	OJ000323_38.0418.C5.o2.gs	Method	GENSCAN
Start	1638	End	2524
GI	none	Score	.8
Exons	1638..1930, 1951..2086, 2420..2524		

Seq. No.	55423	Seq. ID	OJ000323_38.0418.C6
Gene No.	116125	Strand	-
Start	1	End	2962
Name	OJ000323_38.0418.C6.o1.np	Method	AAT/NAP
Start	1	End	1068
GI	6523547	Score	86
Exons	1..24, 509..555, 694..1068		
GI Descrip.	(AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox carteri f. nagariensis]		

Seq. No.	55423	Seq. ID	OJ000323_38.0418.C6
Gene No.	116125	Strand	-
Start	1	End	2962
Name	OJ000323_38.0418.C6.o2.np	Method	AAT/NAP
Start	1	End	2962
GI	7488215	Score	275
Exons	1..24, 1425..1590, 1697..1789, 2309..2431, 2939..2962		
GI Descrip.	probable thioesterase - Arabidopsis thaliana gi|2245107|emb|CAB10529.1| (Z97343) thioesterase like protein [Arabidopsis thaliana] gi|7268500|emb|CAB78751.1| (AL161546) thioesterase like protein [Arabidopsis thaliana]		

Seq. No.	55423	Seq. ID	OJ000323_38.0418.C6
Gene No.	116125	Strand	-
Start	1	End	2962
Name	OJ000323_38.0418.C6.o1.gp	Method	AAT/GAP
Start	1031	End	1396
GI	4969077	Score	692
Exons	1031..1396		

Seq. No.	55423	Seq. ID	OJ000323_38.0418.C6
Gene No.	116125	Strand	-
Start	1	End	2962
Name	OJ000323_38.0418.C6.o2.gs	Method	GENSCAN
Start	1405	End	2431
GI	none	Score	.97
Exons	1405..1590, 1697..1789, 2309..2431		

Seq. No.	55423	Seq. ID	OJ000323_38.0418.C6
Gene No.	116125	Strand	-

Start	1	End	2962
Name	OJ000323_38.0418.C6.o1.tm	Method	TBLASTX:Maize
Start	1452	End	2431
GI	none	Score	72
Exons	1452..1529, 1456..1590, 1463..1594, 1677..1796, 1679..1789, 2309..2431, 2309..2431		

Seq. No.	55423	Seq. ID	OJ000323_38.0418.C6
Gene No.	116125	Strand	-
Start	1	End	2962
Name	OJ000323_38.0418.C6.o1.tc	Method	TBLASTX:Cress
Start	1456	End	2431
GI	none	Score	122
Exons	1456..1590, 1457..1591, 1641..1805, 1679..1789, 2309..2365, 2372..2431		

Seq. No.	55423	Seq. ID	OJ000323_38.0418.C6
Gene No.	116125	Strand	-
Start	1	End	2962
Name	OJ000323_38.0418.C6.o2.gp	Method	AAT/GAP
Start	1533	End	2431
GI	LIB3434-048-P1-K1-H7	Score	478
Exons	1533..1590, 1697..1789, 2309..2431		
GI Descrip.	'2245107/emb|CAB10529.1| 3.0e-36 (Z97343) thioesterase like protein [Arabidopsis thaliana]'		

Seq. No.	55424	Seq. ID	OJ000323_38.0418.C7
Gene No.	116126	Strand	+
Start	4875	End	5354
Name	OJ000323_38.0418.C7.o2.gp	Method	AAT/GAP
Start	4875	End	5354
GI	none	Score	885
Exons	4875..5354		

Seq. No.	55424	Seq. ID	OJ000323_38.0418.C7
Gene No.	116127	Strand	-
Start	124	End	6024
Name	OJ000323_38.0418.C7.o1.np	Method	AAT/NAP
Start	124	End	2397
GI	7484735	Score	226
Exons	124..153, 348..398, 881..934, 1137..1188, 2339..2397		
GI Descrip.	thioesterase homolog - upland cotton (fragment) gi|3063637|gb|AAC14125.1| (AF056204) thioesterase homolog [Gossypium hirsutum]		

Seq. No.	55424	Seq. ID	OJ000323_38.0418.C7
Gene No.	116127	Strand	-
Start	124	End	6024
Name	OJ000323_38.0418.C7.o1.gs	Method	GENSCAN
Start	348	End	1389
GI	none	Score	.55
Exons	348..398, 881..934, 1348..1389		

Seq. No.	55424	Seq. ID	OJ000323_38.0418.C7
Gene No.	116127	Strand	-
Start	124	End	6024
Name	OJ000323_38.0418.C7.o1.gp	Method	AAT/GAP

Start	908	End	2641
GI	LIB3433-046-P1-K1-G6	Score	385
Exons	908..934, 1021..1041, 1137..1188, 2339..2423, 2545..2641		
GI Descrip.	'3063637 9.0e-11 (AF056204) thioesterase homolog [Gossypium hirsutum]'		

Seq. No.	55424	Seq. ID	OJ000323_38.0418.C7
Gene No.	116127	Strand	-
Start	124	End	6024
Name	OJ000323_38.0418.C7.o2.gs	Method	GENSCAN
Start	2335	End	5965
GI	none	Score	.76
Exons	2335..2423, 2545..2658, 2937..3060, 5234..5965		

Seq. No.	55424	Seq. ID	OJ000323_38.0418.C7
Gene No.	116127	Strand	-
Start	124	End	6024
Name	OJ000323_38.0418.C7.o2.np	Method	AAT/NAP
Start	4688	End	6024
GI	7484952	Score	208
Exons	4688..4807, 5277..5375, 5515..5702, 5766..6024		
GI Descrip.	ethylene-responsive transcription factor homolog T13E15.15 - Arabidopsis thaliana gi|2344900|gb|AAC31840.1| (AC002388) putative ethylene response element-binding protein (EREBP) [Arabidopsis thaliana]		

Seq. No.	55424	Seq. ID	OJ000323_38.0418.C7
Gene No.	116127	Strand	-
Start	124	End	6024
Name	OJ000323_38.0418.C7.o1.tm	Method	TBLASTX:Maize
Start	5519	End	5713
GI	none	Score	142
Exons	5519..5713, 5529..5708		

Seq. No.	55424	Seq. ID	OJ000323_38.0418.C7
Gene No.	116127	Strand	-
Start	124	End	6024
Name	OJ000323_38.0418.C7.o1.ts	Method	TBLASTX:Soybean
Start	5519	End	5710
GI	none	Score	113
Exons	5519..5710, 5613..5693		

Seq. No.	55424	Seq. ID	OJ000323_38.0418.C7
Gene No.	116127	Strand	-
Start	124	End	6024
Name	OJ000323_38.0418.C7.o1.tc	Method	TBLASTX:Cress
Start	5525	End	5713
GI	none	Score	93
Exons	5525..5713, 5529..5693		

Seq. No.	55424	Seq. ID	OJ000323_38.0418.C7
Gene No.	116127	Strand	-
Start	124	End	6024
Name	OJ000323_38.0418.C7.o3.gp	Method	AAT/GAP
Start	5678	End	6017
GI	none	Score	641
Exons	5678..6017		

Seq. No.	55425	Seq. ID	OJ000323_38.0418.C8
Gene No.	116128	Strand	+
Start	643	End	756
Name	OJ000323_38.0418.C8.o1.gs	Method	GENSCAN
Start	643	End	756
GI	none	Score	.9
Exons	643..756		

Seq. No.	55426	Seq. ID	OJ000323_38.0418.C11
Gene No.	116129	Strand	+
Start	67	End	689
Name	OJ000323_38.0418.C11.o1.gs	Method	GENSCAN
Start	67	End	689
GI	none	Score	.9
Exons	67..131, 518..689		

Seq. No.	55427	Seq. ID	OJ000323_38.0418.C12
Gene No.	116130	Strand	+
Start	70	End	2372
Name	OJ000323_38.0418.C12.o1.gs	Method	GENSCAN
Start	70	End	1941
GI	none	Score	.97
Exons	70..379, 525..709, 1765..1941		

Seq. No.	55427	Seq. ID	OJ000323_38.0418.C12
Gene No.	116130	Strand	+
Start	70	End	2372
Name	OJ000323_38.0418.C12.o1.np	Method	AAT/NAP
Start	70	End	2372
GI	600855	Score	752
Exons	70..146, 174..379, 523..709, 1765..1988, 2081..2372		
GI Descrip.	(U17887) bZIP protein [Arabidopsis thaliana]		

Seq. No.	55427	Seq. ID	OJ000323_38.0418.C12
Gene No.	116130	Strand	+
Start	70	End	2372
Name	OJ000323_38.0418.C12.o1.ts	Method	TBLASTX:Soybean
Start	199	End	2234
GI	none	Score	179
Exons	199..408, 216..323, 522..560, 563..625, 583..714, 644..709, 1759..1980, 1763..1933, 1788..1976, 2082..2162, 2086..2163, 2090..2167, 2091..2168, 2163..2234		

Seq. No.	55427	Seq. ID	OJ000323_38.0418.C12
Gene No.	116130	Strand	+
Start	70	End	2372
Name	OJ000323_38.0418.C12.o1.tc	Method	TBLASTX:Cress
Start	222	End	2324
GI	none	Score	153
Exons	222..323, 223..378, 510..560, 545..625, 550..624, 643..714, 644..709, 1759..1983, 1863..1982, 2090..2167, 2091..2168, 2172..2309, 2175..2324		

Seq. No.	55427	Seq. ID	OJ000323_38.0418.C12
Gene No.	116130	Strand	+
Start	70	End	2372

Name	OJ000323_38.0418.C12.o1.gp	Method	AAT/GAP
Start	225	End	2224
GI	5005405	Score	1300
Exons	225..379, 523..709, 1765..1988, 2081..2224		
GI Descrip.	600855 6.0e-54 (U17887) bZIP protein [Arabidopsis thaliana]		

Seq. No.	55427	Seq. ID	OJ000323_38.0418.C12
Gene No.	116130	Strand	+
Start	70	End	2372
Name	OJ000323_38.0418.C12.o1.tm	Method	TBLASTX:Maize
Start	1765	End	2372
GI	none	Score	296
Exons	1765..1989, 1788..1994, 2081..2368, 2081..2371, 2085..2372, 2091..2372		

Seq. No.	55428	Seq. ID	OJ000323_38.0418.C13
Gene No.	116131	Strand	+
Start	4143	End	4798
Name	OJ000323_38.0418.C13.o1.gs	Method	GENSCAN
Start	4143	End	4798
GI	none	Score	.7
Exons	4143..4229, 4284..4386, 4488..4798		

Seq. No.	55429	Seq. ID	OJ000323_38.0418.C14
Gene No.	116132	Strand	+
Start	16600	End	19242
Name	OJ000323_38.0418.C14.o1.gp	Method	AAT/GAP
Start	16489	End	16839
GI	none	Score	674
Exons	16489..16839		

Seq. No.	55429	Seq. ID	OJ000323_38.0418.C14
Gene No.	116132	Strand	+
Start	16600	End	19242
Name	OJ000323_38.0418.C14.o5.np	Method	AAT/NAP
Start	16590	End	19242
GI	2194137	Score	237
Exons	16590..16869, 17285..17490, 19210..19242		
GI Descrip.	(AC002062) ESTs gb|R29947,gb|H76702 come from this gene. [Arabidopsis thaliana]		

Seq. No.	55429	Seq. ID	OJ000323_38.0418.C14
Gene No.	116132	Strand	+
Start	16600	End	19242
Name	OJ000323_38.0418.C14.o5.gs	Method	GENSCAN
Start	16600	End	18091
GI	none	Score	.94
Exons	16600..16891, 17286..17506, 17592..17666, 17801..17848, 17930..18091		

Seq. No.	55429	Seq. ID	OJ000323_38.0418.C14
Gene No.	116132	Strand	+
Start	16600	End	19242
Name	OJ000323_38.0418.C14.o2.gp	Method	AAT/GAP
Start	17336	End	18335
GI	12268_1.R1084	Score	1231
Exons	17336..17506, 17592..17666, 17801..17848, 17930..18335		

GI Descrip. '1076660/pir||S51839 6.0e-15 D13F(MYBST1) protein - potato >gi_786426_bbs_159122 (S74753) MybSt1=Myb-related transcriptional activator {DNA-binding domain repeats} [Solanum tuberosum=potatoes, leaf, Peptide, 342 aa] [Solanum tuberosum]'

Seq. No.	55429	Seq. ID	OJ000323_38.0418.C14
Gene No.	116133	Strand	-
Start	592	End	4829
Name	OJ000323_38.0418.C14.o1.gs	Method	GENSCAN
Start	592	End	3207
GI	none	Score	.9
Exons	592..1522, 2183..3207		

Seq. No.	55429	Seq. ID	OJ000323_38.0418.C14
Gene No.	116133	Strand	-
Start	592	End	4829
Name	OJ000323_38.0418.C14.o1.np	Method	AAT/NAP
Start	595	End	4829
GI	7488270	Score	1382
Exons	595..676, 728..1522, 2183..2427, 2455..2612, 2640..2773, 4772..4829		
GI Descrip.	protein kinase homolog T13E15.16 - Arabidopsis thaliana gi|2344901|gb|AAC31841.1| (AC002388) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	55429	Seq. ID	OJ000323_38.0418.C14
Gene No.	116134	Strand	-
Start	5628	End	6478
Name	OJ000323_38.0418.C14.o2.gs	Method	GENSCAN
Start	5628	End	6478
GI	none	Score	.49
Exons	5628..6392, 6404..6478		

Seq. No.	55429	Seq. ID	OJ000323_38.0418.C14
Gene No.	116135	Strand	-
Start	9811	End	13444
Name	OJ000323_38.0418.C14.o2.np	Method	AAT/NAP
Start	9811	End	13341
GI	7488220	Score	834
Exons	9811..10113, 10864..11794, 11822..12109, 13307..13341		
GI Descrip.	probable triacylglycerol lipase - Arabidopsis thaliana gi|2245036|emb|CAB10455.1| (Z97342) triacylglycerol lipase like protein [Arabidopsis thaliana] gi|7268433|emb|CAB80953.1| (AL161545) triacylglycerol lipase like protein [Arabidopsis thaliana]		

Seq. No.	55429	Seq. ID	OJ000323_38.0418.C14
Gene No.	116135	Strand	-
Start	9811	End	13444
Name	OJ000323_38.0418.C14.o4.gs	Method	GENSCAN
Start	10765	End	12519
GI	none	Score	.93
Exons	10765..12519		

Seq. No.	55429	Seq. ID	OJ000323_38.0418.C14
Gene No.	116135	Strand	-
Start	9811	End	13444

Name	OJ000323_38.0418.C14.o3.np	Method	AAT/NAP
Start	13001	End	13444
GI	6069646	Score	330
Exons	13001..13444		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	55429	Seq. ID	OJ000323_38.0418.C14
Gene No.	116136	Strand	-
Start	13725	End	15150
Name	OJ000323_38.0418.C14.o4.np	Method	AAT/NAP
Start	13725	End	15150
GI	5852084	Score	65
Exons	13725..13862, 15110..15150		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	55429	Seq. ID	OJ000323_38.0418.C14
Gene No.	116137	Strand	-
Start	18798	End	19548
Name	OJ000323_38.0418.C14.o1.tw	Method	TBLASTX:Wheat
Start	608	End	1113
GI	none	Score	49
Exons	608..721, 793..1113, 794..1111		

Seq. No.	55429	Seq. ID	OJ000323_38.0418.C14
Gene No.	116137	Strand	-
Start	18798	End	19548
Name	OJ000323_38.0418.C14.o2.ts	Method	TBLASTX:Soybean
Start	772	End	2262
GI	none	Score	70
Exons	772..906, 793..1170, 794..1177, 1237..1299, 1315..1482, 1328..1489, 1387..1500, 2182..2262, 2189..2260		

Seq. No.	55429	Seq. ID	OJ000323_38.0418.C14
Gene No.	116137	Strand	-
Start	18798	End	19548
Name	OJ000323_38.0418.C14.o1.tm	Method	TBLASTX:Maize
Start	775	End	1494
GI	none	Score	126
Exons	775..912, 793..1170, 794..1174, 1237..1284, 1237..1311, 1268..1291, 1315..1482, 1328..1489, 1387..1494		

Seq. No.	55429	Seq. ID	OJ000323_38.0418.C14
Gene No.	116137	Strand	-
Start	18798	End	19548
Name	OJ000323_38.0418.C14.o1.tc	Method	TBLASTX:Cress
Start	793	End	2584
GI	none	Score	458
Exons	793..1170, 794..1177, 1237..1299, 1261..1293, 1321..1482, 1334..1489, 1387..1494, 2182..2424, 2189..2413, 2458..2583, 2462..2584		

Seq. No.	55429	Seq. ID	OJ000323_38.0418.C14
Gene No.	116137	Strand	-

Start	18798	End	19548
Name	OJ000323_38.0418.C14.o2.tm	Method	TBLASTX:Maize
Start	2182	End	2584
GI	none	Score	251
Exons	2182..2424, 2189..2413, 2458..2583, 2462..2584		

Seq. No.	55429	Seq. ID	OJ000323_38.0418.C14
Gene No.	116137	Strand	-
Start	18798	End	19548
Name	OJ000323_38.0418.C14.o3.ts	Method	TBLASTX:Soybean
Start	2263	End	2584
GI	none	Score	138
Exons	2263..2424, 2264..2413, 2458..2583, 2462..2584		

Seq. No.	55429	Seq. ID	OJ000323_38.0418.C14
Gene No.	116137	Strand	-
Start	18798	End	19548
Name	OJ000323_38.0418.C14.o1.ts	Method	TBLASTX:Soybean
Start	10858	End	12036
GI	none	Score	88
Exons	10858..11082, 10889..11047, 11092..11139, 11185..11250, 11281..11466, 11287..11502, 11530..11685, 11540..11686, 11707..11781, 11708..11782, 11801..11863, 11827..12036		

Seq. No.	55429	Seq. ID	OJ000323_38.0418.C14
Gene No.	116137	Strand	-
Start	18798	End	19548
Name	OJ000323_38.0418.C14.o3.tm	Method	TBLASTX:Maize
Start	10931	End	11364
GI	none	Score	192
Exons	10931..11050, 10933..11076, 11074..11094, 11113..11256, 11114..11254, 11222..11347, 11245..11364, 11284..11364		

Seq. No.	55429	Seq. ID	OJ000323_38.0418.C14
Gene No.	116137	Strand	-
Start	18798	End	19548
Name	OJ000323_38.0418.C14.o5.tm	Method	TBLASTX:Maize
Start	11524	End	11988
GI	none	Score	72
Exons	11524..11730, 11540..11635, 11839..11988		

Seq. No.	55429	Seq. ID	OJ000323_38.0418.C14
Gene No.	116137	Strand	-
Start	18798	End	19548
Name	OJ000323_38.0418.C14.o4.tm	Method	TBLASTX:Maize
Start	16747	End	17669
GI	none	Score	329
Exons	16747..16791, 16848..16892, 17282..17482, 17284..17475, 17292..17483, 17360..17506, 17622..17669, 17625..17669		

Seq. No.	55429	Seq. ID	OJ000323_38.0418.C14
Gene No.	116137	Strand	-
Start	18798	End	19548
Name	OJ000323_38.0418.C14.o4.ts	Method	TBLASTX:Soybean
Start	17224	End	17512
GI	none	Score	291
Exons	17224..17376, 17282..17512, 17372..17485		